

SOVIET PHYSICS - CRYSTALLOGRAPHY

Volume 9, 1964

A translation of Kristallografiya Zhurnal

- A Study of the Photoconductivity and the Photoelectric State in Monocrystals of Potassium Dichromate. (E/T) S. A. Abdulgamidov and V. M. Fridkin. **9**, 47 (1964) [**9**, 63 (1964)]
- Kinetics of the Development of the Photoelectric State in Additively Colored KCl Single Crystals. (E) S. A. Abdulgamidov, I. S. Zheludev, and V. M. Fridkin. **9**, 478 (1965) [**9**, 564 (1964)]
- Crystal Structure of Barylite, $\text{BaBe}_2\text{Si}_2\text{O}_{10}$ (Use of Difference F^2 -Syntheses to Solve for Light Atoms in the Presence of Comparatively Heavy Ones). (E) K. K. Abrashev, V. V. Dyukhin, and N. V. Belov. **9**, 691 (1965) [**9**, 816 (1964)]
- Agalarzade, P. S. see Semiletov, S. A. - 409
- Agranovskaya, A. I. see Krainik, N. N. - 281
- Production of Thin Films of Gallium Antimonide by Evaporation in Vacuum. (E) S. A. Altkhovich and S. A. Semiletov. **9**, 488 (1965) [**9**, 574 (1964)]
- Aldshin, P. A. see Khodchenkov, A. N. - 452
- Internal Conical Refraction of Elastic Waves in Ammonium Dihydrogen Phosphate. (E) K. S. Aleksandrov and T. V. Ryzhova. **9**, 298 (1964) [**9**, 373 (1964)]
- Crystal Structure of the Compound HfCr_2 . (E) S. P. Alisova, P. B. Budberg, and K. I. Shakhova. **9**, 78 (1964) [**9**, 100 (1964)]
- Polymorphism of Zirconium Dichromide. (E) S. P. Alisova, P. B. Budberg, and K. I. Shakhova. **9**, 343 (1964) [**9**, 419 (1964)]
- Growing of Ionic Crystals with Small Dislocation Densities. (E) A. A. Alybakov, G. F. Dobrzanski, and V. A. Gubanova. **9**, 791 (1965) [**9**, 940 (1964)]
- Andrushko, A. F. see Shalimova, K. V. - 340
- Andrushko, A. F. see Shalimova, K. V. - 623
- Domain Structure of Nickel Crystals Subjected to Mechanical Deformation. (E) I. P. Antipin, L. V. Kirenski, and M. K. Savchenko. **9**, 355 (1964) [**9**, 429 (1964)]
- Arend, H. see Camfova, P. - 92
- Measuring the Density of the α and β Phases of Parachlorobenzene in a Gradient Tube. (E) Yu. G. Asadov, B. D. Korezhkov, N. N. Petropavlov, V. M. Kozhin, and Yu. V. Myukh. **9**, 771 (1965) [**9**, 821 (1964)]
- Aver'yanova, L. N. see Belyaev, I. N. - 220
- Analysis of the Character of X-Ray Diffuse Scattering in Iron-Nickel-Aluminum Alloys. (T) Yu. A. Bagaryatski and I. G. Lukina. **9**, 397 (1965) [**9**, 477 (1964)]
- Bairamashvili, I. A. see Tavazze, F. N. - 768
- Habit of Graphite Crystals. (E) A. A. Baranov. **9**, 644 (1965) [**9**, 759 (1964)]
- Study of the Copper-Tellurium System in Thin Films. (E) R. V. Baranova and Z. G. Pinsker. **9**, 83 (1964) [**9**, 104 (1964)]
- Batalieva, N. G. see Voronkov, A. A. - 461
- Batsanov, S. S. see Ruchkin, E. D. - 632
- On Conditions for Growing Thin Single Crystal Layers of Semiconductors on a Substrate of Other Than Single Crystal Nature. (E) L. K. Beizter and I. K. Vitol. **9**, 344 (1964) [**9**, 308 (1964)]
- Crystal Structure Illustrations of Shubnikov Antisymmetry Groups. (T) N. V. Belov, N. N. Neronova, and T. S. Kuntsevich. **9**, 117 (1964) [**9**, 147 (1964)]
- Nomenclature of the Bravais Lattices. (T) N. V. Belov. **9**, 315 (1964) [**9**, 396 (1964)]
- Belov, N. V. see Klose, G. I. - 321
- Belov, N. V. see Solov'eva, L. P. - 458
- Belov, N. V. see Ramanova, L. M. - 545
- Belov, N. V. see Ryushkin, V. N. - 655
- Belov, N. V. see Abrashev, K. K. - 691
- Belov, N. V. see Neronova, N. N. - 700
- New Compounds with the Pyrochlore Structure. (E) I. N. Belyaev, L. N. Aver'yanova, and I. I. Belyaeva. **9**, 230 (1964) [**9**, 286 (1964)]
- Light Emission During Scratching of Lithium Fluoride Crystals. (E) L. M. Belyaev and Yu. N. Martyshev. **9**, 96 (1964) [**9**, 117 (1964)]
- Belyaev, L. M. see Dobrzanski, G. F. - 781
- Belyaeva, I. I. see Belyaev, I. N. - 220
- Belyatskaya, N. S. see Pomin, V. G. - 172
- Berezhkova, G. V. see Papkov, V. S. - 388
- Berman, I. B. see Berzina, I. G. - 202
- Berman, I. B. see Berzina, I. G. - 483
- Propagation of Dislocations in Irradiated Crystals. (E) I. G. Berzina, and I. B. Berman. **9**, 202 (1964) [**9**, 260 (1964)]
- Microhardness of Alkali Halide Crystals. (E) I. G. Berzina, I. B. Berman, and P. A. Savintsev. **9**, 483 (1965) [**9**, 569 (1964)]
- Beznosikov, B. V. see Drokin, A. I. - 352
- Sections of the Doubled Patterson Function. (T) V. N. Blyushkin and N. V. Belov. **9**, 655 (1965) [**9**, 771 (1964)]
- Bobro, Yu. G. see Paltnik, L. S. - 163
- Systematic Analysis of the Patterson Function. Specification of Symmetry and Determination of Fragments of Structure for Crystals of Low Symmetry. (T) S. V. Borisov. **9**, 515 (1965) [**9**, 603 (1964)]
- Borisov, S. V. see Brusentsev, F. A. - 262
- Microscopical and X-Ray Structural Investigation of the Mechanism of Fatigue Failure in Silver Chloride. (E) B. M. Bratnin and Yu. S. Terminasov. **9**, 603 (1965) [**9**, 718 (1964)]
- Change of Polarization of Crystals of Triglycid Sulfate in Linear Periodic Fields with Frequencies of 10^3 to 10^6 cps. (E) A. A. Brandt and V. Ya. Shevchenko. **9**, 230 (1964) [**9**, 292 (1964)]
- Program for Finding the Atomic Scattering Factors of a Centrosymmetrical Crystal Structure from the Zero Experimental Structure Amplitudes by the Method of Least

- Squares. (T) F. A. Brusentsev, 9, 257 (1964) [9, 323 (1964)]
 Extraction of Crystal Structure from a Set of Patterson Peaks by Means of a Computer. (T) F. A. Brusentsev and S. V. Borisev, 9, 262 (1964) [9, 330 (1964)]
- Brusentsev, F. A. see Dvoryankin, V. F. - 455
 Brusentsev, F. A. see Dvoryankin, V. F. - 613
- Induced Anisotropy in Crystals of Iron-Nickel Ferrites with Excess Iron. (E) N. L. Bryukhatov and N. L. Pakhomova, 9, 432 (1965) [9, 521 (1964)]
- Bryukhatov, N. L. see Kravitskii, N. N. - 281
- Budberg, P. B. see Alisova, S. P. - 78
 Budberg, P. B. see Alisova, S. P. - 343
 Budurov, S. I. see Chernov, A. A. - 309
 Budurov, S. I. see Chernov, A. A. - 388
 Bulankin, V. S. see Maslov, V. N. - 105
- Effect of Elastic Stresses on the Polarity of the Boundaries of Ferromagnetic Films. (E) V. A. Buravikhin and V. G. Kazakov, 9, 641 (1965) [9, 758 (1964)]
- Electron Microscope Study of the Domain and Dislocation Structure in the Ordered Alloy $MgCd$. (E) L. S. Bushnev and L. P. Kitaeva, 9, 740 (1965) [9, 879 (1964)]
- Bykov, V. N. see Levicki, V. A. - 535
- Some Crystal Chemical and Physical Properties of Monocrystals of Barium Titanate with Cobalt Added. (E) P. Cuflová, H. Arend, and J. Novák, 9, 92 (1965) [9, 113 (1964)]
- Cherkashin, E. E. see Markiv, V. Ya. - 619
- Growth Forms of Macroscopic Steps. Development of Faces on the Ends of the Steps. (T) A. A. Chernov and S. I. Budurov, 9, 309 (1964) [9, 388 (1964)]
- Growth Forms of Macroscopic Steps. Smooth Curvature of the End Faces and the Formation of Inclusions. (T/E) A. A. Chernov and S. I. Budurov, 9, 388 (1965) [9, 466 (1964)]
- Chernov, A. A. see Lemlein, G. G. - 181
 Chernyshev, K. S. see Dobrzhanskii, G. F. - 781
 Reversible Decoration of Defects in Synthetic Ruby. (E) M. A. Chernysheva, 9, 783 (1965) [9, 931 (1964)]
- Chukhlantsev, V. G. see Poleshaev, Yu. M. - 630
- Daryusina, S. A. see Distler, G. I. - 99
- Application of Crystal Scanning in the Case of Anomalous Transmission of X Rays. (E) L. I. Datsenko and M. Ya. Skorokhod, 9, 223 (1964) [9, 284 (1964)]
- Theory of Dendrite Growth in Germanium. (T) A. A. Davydov and V. N. Maslov, 9, 393 (1965) [9, 472 (1964)]
- Davydov, A. A. see Maslov, V. N. - 789
- Possibility of Hydrothermally Synthesizing Cadmium Tungstate. (E) L. N. Dem'yanets and B. N. Litvin, 9, 497 (1965) [9, 582 (1964)]
- Chemical Crystallization of Germanium in the Open Iodide Process. (E) E. A. Dem'yanov, V. N. Kolesnikov, and G. V. Shestakov, 9, 761 (1965) [9, 910 (1964)]
- Diamov, I. M. see Litvin, B. N. - 485
- Crystal Structure of Zinc Selenide Films. (E) I. Dima, 9, 338 (1964) [9, 417 (1964)]
- Mechanism of Secondary Decoration of Crystal Surfaces. (E) G. I. Distler and S. A. Daryusina, 9, 99 (1964) [9, 119 (1964)]
- Dmitriev, V. A. see Shalimova, K. V. - 340
- Infrared Transmission Spectra of Single Crystals of Copper Chloride and Bromide. (E) G. F. Dobrzhanskii, L. M. Belyaev, I. P. Petrov, Yu. F. Rybkin, A. E. Fedosov, and K. S. Chernyshev, 9, 781 (1965) [9, 928 (1964)]
- Dobrzhanskii, G. F. see Vitovskii, B. V. - 493
 Dobrzhanskii, G. F. see Alybakov, A. A. - 791
- Domain Structure of Single Crystals of Thallium, Dysprosium, and Terbium Ferrite-Garnets. (E) A. I. Drokin and B. V. Beznosikov, 9, 352 (1964) [9, 427 (1964)]
- Dubov, S. S. see Gal'perin, E. L. - 81
- Dutshak, Ya. I. see Mikolichuk, A. G. - 86
- Effects of Thermal Motion on the Potential Distribution for an Atom. (T) V. F. Dvoryankin, 9, 13 (1964) [9, 20 (1964)]
- Effects of Thermal Motion on the Potential Distribution for the Hydrogen Atom. (T/E) V. F. Dvoryankin and V. N. Kolomichuk, 9, 17 (1964) [9, 26 (1964)]
- An Analytical Representation of the Integral Characteristics of the Electron Density and Potential Distribution in Atoms. (T) V. F. Dvoryankin, 9, 132 (1964) [9, 167 (1964)]
- Modification of the Least-Squares Method in Structure Analysis. (T) V. F. Dvoryankin and F. A. Brusentsev, 9, 455 (1965) [9, 548 (1964)]
- The Variation of the Integral Characteristics of Potential Distribution in Atoms with Atomic Number. (T) V. F. Dvoryankin, G. G. Dvoryankina, V. N. Kolomichuk, and F. A. Brusentsev, 9, 613 (1965) [9, 730 (1964)]
- Dvoryankin, V. F. see Kolomichuk, V. N. - 36
 Dvoryankina, G. G. see Dvoryankin, V. F. - 613
- An X-Ray Structural Investigation of $TiNO_3 \cdot Ca(NO_3)_2 \cdot 5H_2O$. (E) O. Ya. D'yachenko and V. M. Usinov, 9, 785 (1965) [9, 916 (1964)]
- D'yakonov, L. J. see Maslov, V. N. - 789
- Eidel'man, I. S. see Kirenski, L. V. - 572
- The Domain Structure in Monocrystals of Rochelle Salt. (E) I. Ya. Eisner, 9, 90 (1965) [9, 111 (1964)]
- Decoration of the Microstructure of Alkali Halide Crystals on Decomposition of Solid Solutions. (E) A. A. Elango and R. I. Gindina, 9, 598 (1965) [9, 712 (1964)]
- Crystal Structure of a Magnesium-Rich Compound in the Praseodymium-Magnesium System. (E) V. L. Evdokimenko and P. I. Kripyakevich, 9, 463 (1965) [9, 554 (1964)]
- Evdokimenko, V. L. see Kripyakevich, P. I. - 330
- Fedorov, P. I. see Goncharenko, A. M. - 504
- Fedosov, A. E. see Dobrzhanskii, G. F. - 781
- A Study of the Systems $PbTiO_3$ - $CaSnO_3$ and $PbTiO_3$ - $CaZrO_3$. (E) S. A. Fedulov and Yu. N. Venevisev, 9, 286 (1964) [9, 358 (1964)]
- Study of the $BiFeO_3$ - $LaAlO_3$ System. (E) S. A. Fedulov, P. B. Ladyzhenskii, and Yu. N. Venevisev, 9, 428 (1965) [9, 516 (1964)]
- Fesenko, E. G. see Filip'ev, V. S. - 231
- Filatova, I. V. see Kurov, G. A. - 489
- Structural Changes and Anomalies in the Electrical Properties During the Phase Transition in Pb_3CoWO_6 . (E) V. S. Filip'ev and E. G. Fesenko, 9, 231 (1964) [9, 293 (1964)]
- Firsova, M. M. see Govorova, E. Z. - 383
- Firsova, M. M. see Zubov, V. G. - 729
- Some Structural Peculiarities of Highly Doped Silicon Single Crystals. (E) V. G. Fomin, M. G. Mil'vidskii, S. P. Orshina, N. S. Belyatskaya, and M. A. Gurevich, 9, 173 (1964) [9, 219 (1964)]
- On the Distribution of Doping Additions of Gold in Germanium Single Crystals. (E) V. G. Fomin, G. L. Mal'yutina, M. A. Gurevich, and A. G. Novikov, 9, 178 (1964) [9, 227 (1964)]
- Fotiev, A. A. see Glazyrin, M. P. - 226
- Fotiev, A. A. see Glazyrin, M. P. - 421
- Frankovich, D. P. see Teeliyuk, M. Yu. - 469
- Fridkin, V. M. see Abdulgaidov, S. A. - 47
- Fridkin, V. M. see Abdulgaidov, S. A. - 476
- Investigation of Crack Propagation in Some Single Crystals. (E/T) V. M. Frinkel' and I. S. Kutkin, 9, 250 (1964) [9, 314 (1964)]

- The Crystal Structure of Polytrifluorochloroethylene. (E) E. L. Gal'perin, S. S. Dubov, E. V. Volkova, and M. P. Mlenik. 9, 81 (1964) [9, 102 (1964)]
- Study of Secondary Cleavage in Calcite Crystals. (E) R. I. Garber and E. I. Shepina. 9, 198 (1964) [9, 255 (1964)]
- Gavrilova, A. V. see Tyapkin, Yu. D. - 168
- The Mechanism and Growth of Negative Crystals (Holes) During the Mutual Diffusion in Alkali Halide Monocrystals (KCl-KBr System). (E/T) Ya. E. Geguzin, V. I. Solunskii, and Yu. S. Kaganovskii. 9, 193 (1964) [9, 248 (1964)]
- Growth of Negative Crystals (Pores) in the Diffusion Zone in the Mutual Diffusion of Alkali Halide Single Crystals. (E) Ya. E. Geguzin and V. I. Solunskii. 9, 491 (1965) [9, 577 (1964)]
- Changes in the Integral Intensity of X-Ray Reflections from Plastically Deformed Molybdenum During Low-Temperature Relaxation. (E) E. P. Germanov and O. N. Shvritin. 9, 437 (1965) [9, 527 (1964)]
- Gindina, R. I. see Elango, A. A. - 598
- Structural Imperfections of Epitaxial Germanium Layers. (E) E. I. Givargizov and A. N. Stepanova. 9, 107 (1964) [9, 127 (1964)]
- Different Forms of Packing Defects in Synthetic Layers of Germanium. (E) E. I. Givargizov and N. N. Sheftal'. 9, 785 (1965) [9, 933 (1964)]
- Givargizov, E. I. see Sheftal', N. N. - 576
- Crystal Structure of $ZnSeO_3 \cdot 2H_2O$. (E) V. F. Gladkova and Yu. D. Kondrashev. 9, 149 (1964) [9, 190 (1964)]
- New Examples of the Structural Type Li_2Pb . (E) E. I. Gladyshevskii, G. I. Oleksiv, and P. I. Kripyakevich. 9, 269 (1964) [9, 338 (1964)]
- Gladyshevskii, E. I. see Protasov, V. S. - 208
- Gladyshevskii, E. I. see Kripyakevich, P. I. - 330
- Gladyshevskii, E. I. see Zarechnyuk, O. S. - 706
- Optical Parameters of Crystals of Sodium Vanadates. (E) M. P. Glazyrin and A. A. Fotiev. 9, 226 (1964) [9, 287 (1964)]
- K $_2O$ -V $_2O_5$ of the Compounds Formed in the System K_2O -V $_2O_5$. (E) M. P. Glazyrin and A. A. Fotiev. 9, 421 (1965) [9, 506 (1964)]
- Crystallographic and Optical Characteristics of the Vanadates of Certain Rare Earth Elements. (E) M. P. Glazyrin and A. A. Ivakin. 9, 779 (1965) [9, 927 (1964)]
- Glushkova, T. M. see Zubov, V. G. - 729
- X-Ray Goniometric Study of Phenakite. (E) V. P. Golovachev. 9, 80 (1964) [9, 101 (1964)]
- Golovastikov, N. I. see Klossa, G. I. - 321
- Golovkin, V. S. see Levlik, V. A. - 535
- Absorption Surfaces for Crystals of the Various Systems. (R) A. M. Goncharenko, S. V. Grum-Grzhimailo, and F. I. Fedorov. 9, 504 (1965) [9, 589 (1964)]
- Interaction of Vibrations at Natural Frequencies in Crystals. (T/E) E. Z. Govorova and M. M. Firsova. 9, 383 (1965) [9, 459 (1964)]
- Achromatic Half-Wave Plate. (E/T) B. N. Grechushnikov, G. D. Shnyrev, and I. P. Petrov. 9, 345 (1964) [9, 421 (1964)]
- Grishina, S. P. see Fomin, V. G. - 172
- Gritsenko, M. M. see Sil'chenko, V. G. - 847
- Grum-Grzhimailo, S. V. see Goncharenko, A. M. - 504
- Gubanov, V. A. see Alyakov, A. A. - 791
- Gubanov, V. A. see Alyakov, A. A. - 791
- Gurevich, M. A. see Fomin, V. G. - 172
- Gurevich, M. A. see Fomin, V. G. - 178
- Gurevich, M. A. see Shestakova, N. A. - 635
- Crystal Structure of L-Phenylalanine Hydrochloride. Refinement and Discussion of Structure. (E) G. V. Gurskaya. 9, 709 (1965) [9, 839 (1964)]
- Gurskaya, M. V. see Semanova, L. S. - 495
- Some Properties of Artificial Fluorite Containing a Trace of Samarium. (E) L. N. Guseva and A. A. Urusovskaya. 9, 359 (1964) [9, 432 (1964)]
- Ievins, A. see Ozol, Ya. - 22
- Moiré Patterns Produced by the Superposition of Two Lattice Figures. (T/E) N. K. Ignat'ev. 9, 562 (1965) [9, 666 (1964)]
- On the Entry of Lead Impurities into KCl Crystals under the Influence of Vibration. (E) G. M. Ikonnikova and A. P. Izergin. 9, 110 (1964) [9, 130 (1964)]
- Ilyukhin, V. V. see Ahrashov, K. K. - 691
- Ilyukhin, V. V. see Litvin, B. N. - 795
- Electron Diffraction Study of the Semiconducting Compound Ag $_{11}Te_8$. (E) R. M. Imamov and Z. G. Pinsker. 9, 626 (1965) [9, 743 (1964)]
- Determination of the Crystal Structure of Cu $_{10}S_8$. (E) R. M. Imamov, Z. G. Pinsker, and A. I. Ivchenko. 9, 721 (1965) [9, 853 (1964)]
- Imamov, R. M. see Pinsker, Z. G. - 277
- Imamov, R. M. see Pinsker, Z. G. - 334
- Imamov, R. M. see Pinsker, Z. G. - 485
- Imamov, R. M. see Zav'yalova, A. A. - 734
- Theory of Stress and Dislocation Formation in the Growth of Crystals. (T/E) V. L. Indenbom. 9, 57 (1964) [9, 74 (1964)]
- Rate of Rotating Crystals and Characteristics of Their Growth. (E) G. V. Inushkin and K. N. Shabalina. 9, 342 (1964) [9, 396 (1964)]
- Preliminary Results from an X-Ray Structural Study of the Ferroelectric Ceramic VK-3 at Constant Electric Field. (E) L. G. Ismailzade, T. N. Verbitskaya, and V. I. Nesterenko. 9, 332 (1964) [9, 412 (1964)]
- Ispov, V. A. see Kravnik, N. N. - 251
- Ivakin, A. A. see Glazyrin, M. P. - 779
- Ivanov, N. R. see Shvalov, L. A. - 290
- X-Ray and Thermogravimetric Studies of the Octahydrates of the Sulfates of the Lanthanides and Yttrium. (E) V. I. Ivanov. 9, 553 (1965) [9, 655 (1964)]
- Ivchenko, A. I. see Imamov, R. M. - 721
- Existence of Short-Range Order in Gold-Palladium Alloys. (E) V. I. Iveronova and A. A. Katsnel'son. 9, 467 (1965) [9, 557 (1964)]
- Ivleva, V. S. see Shestakova, N. A. - 635
- Some Properties of Hexagonal Celsian Obtained by the Verneuil Method. (E) A. K. Ivukins and Ya. I. Panova. 9, 473 (1965) [9, 560 (1964)]
- Izergin, A. P. see Ikonnikova, G. M. - 110
- Kachan, L. A. see Litvin, B. N. - 485
- Kaganovskii, Yu. S. see Geguzin, Ya. E. - 193
- Kamaev, V. E. see Rudyak, V. M. - 638
- Principle of a Structure Amplitude Computing Program for All 230 Symmetry Groups. (T) T. S. Kamenakaya. 9, 266 (1964) [9, 335 (1964)]
- Kamentsev, I. E. see Tselinob, L. I. - 374
- Behavior of Anisotropic Liquids in an Electric Field. (E) A. P. Kapustin and L. S. Larioueva. 9, 235 (1964) [9, 297 (1964)]
- Karov, V. N. see Matyushenko, N. N. - 213
- Shock Waves at the Centers of Growth on the Faces of Tetrahedra and Cubes of NaBrO $_3$ Crystals. (E) A. P. Kasatkina. 9, 239 (1964) [9, 302 (1964)]
- Katsnel'son, A. A. see Iveronova, V. I. - 467
- Kazakov, V. G. see Buravikhin, V. A. - 641
- Device for Rectifying Oriented Crystals. (E) Yu. N. Kazakov. 9, 500 (1965) [9, 585 (1964)]

- Special Directions for Elastic Waves in Crystals. (T)
A. G. Khatskevich, 9, 579 (1965) [9, 690 (1964)]
- Analytic Approximation of Atomic Scattering Factors for Electrons. (T/E) A. N. Khodoshanov, V. P. Spiridonov, and P. A. Akhshin, 9, 452 (1965) [9, 546 (1964)]
- X-Ray Structural Study of Active (d-) and Racemic (d, l-) Antimony Tartrates. (E) G. I. Kloss, N. I. Golovastikov, and N. V. Belov, 9, 321 (1964) [9, 462 (1964)]
- Magnetic Reversal of Thin Single Crystal Iron Films. (E) L. V. Krasnitski, V. G. Pyn'ko, and I. S. Edel'man, 9, 572 (1965) [9, 681 (1964)]
- Krasnitski, L. V. see Antipin, I. P. - 385
- Production and Some Properties of Indium Antimonide-Gallium Antimonide Heterojunctions. (E) N. K. Kiseleva, 9, 365 (1964) [9, 439 (1964)]
- Kiseleva, L. P. see Bushnev, L. S. - 740
- Tensor of the Derivative of Characteristic Temperature with Respect to Strain for a Molecular Crystal. (T) A. I. Kitaigorodskii, 9, 135 (1964) [9, 171 (1964)]
- Calculation of the Lattice Energies of Molecular Crystals. Lattice Energy Surface Cross Sections. (T/E) A. I. Kitaigorodskii, and K. V. Mirskaya, 9, 137 (1964) [9, 174 (1964)]
- Calculation of the Lattice Energies of Molecular Crystals. Energy of a Dipole Lattice. (T) A. I. Kitaigorodskii, and K. V. Mirskaya, 9, 539 (1965) [9, 634 (1964)]
- Kliya, M. O. see Lemlein, G. G. - 181
- Kolenskikh, V. N. see Dem'yanov, E. A. - 761
- An Electron Diffraction Determination of the Positions of Hydrogen Atoms in NH_4Br . (E) V. N. Kolomnichuk and V. F. Dvoryankin, 9, 35 (1964) [9, 50 (1964)]
- Kolomnichuk, V. N. see Dvoryankin, V. F. - 17
- Kolomnichuk, V. N. see Dvoryankin, V. F. - 613
- Effects of X Rays on the Structure of Penterythritol. (E) E. V. Kolontsova and I. V. Telegina, 9, 221 (1964) [9, 282 (1964)]
- Kolontsova, E. V. see Telegina, I. V. - 272
- Crystal Structure of p-Dimethyldiazaminobenzene. (E) Yu. D. Kondrashev, 9, 323 (1964) [9, 403 (1964)]
- Kondrashev, Yu. D. see Gladkova, V. F. - 149
- New X-Ray Data Regarding Halargite and Inderborite. (E) V. V. Kondrat'eva, 9, 616 (1965) [9, 735 (1964)]
- The Unit Cell and Space Group of Stenochlorite. (E) V. V. Kondrat'eva, 9, 766 (1965) [9, 916 (1964)]
- Konorov, P. P. see Rumsh, M. A. - 678
- Koroshchikina, R. L. see Maslov, V. N. - 481
- Koroshkov, B. D. see Asadov, Yu. G. - 771
- Magnetic Structure Close to the Curie Point. (T) O. V. Kovalev, 9, 665 (1965) [9, 783 (1964)]
- Kozhin, V. M. see Asadov, Yu. G. - 771
- Crystal Chemistry of Ferroelectrics with the Structural Type of Tetragonal Oxygen Tungsten Bronze. (E) N. N. Krainik, V. A. Isupov, M. F. Bryzhina, and A. I. Agranovskaya, 9, 281 (1964) [9, 352 (1964)]
- The Crystal Structure of Searlesite, $\text{Na}_2\text{SO}_4 \cdot \text{H}_2\text{O}$. (E) V. B. Kravchenko, 9, 143 (1964) [9, 182 (1964)]
- Compounds with the α -Mn Superstructure in the Rare Earth-Magnesium System. (E) P. I. Kripyakevich, V. I. Evdokimenko, and E. I. Gladyshevskii, 9, 330 (1964) [9, 410 (1964)]
- Kripyakevich, P. I. see Gladyshevskii, E. I. - 269
- Kripyakevich, P. I. see Evdokimenko, V. I. - 463
- Kripyakevich, P. I. see Teslyuk, M. Yu. - 469
- Kripyakevich, P. I. see Markiv, V. Ya. - 619
- Kripyakevich, P. I. see Zarechayuk, O. S. - 706
- Growth of Mercury Selenide and Telluride Single Crystals from the Gas Phase and Their Study. (E) E. Kruchanu, D. Nikulskii, and A. Vamku, 9, 445 (1965) [9, 537 (1964)]
- The Influence of Impurities on the Properties of Barium Titanate. (E) A. Yu. Kudzin, 9, 233 (1964) [9, 295 (1964)]
- A Theoretical Expression of the Interference Function Corresponding to the Particle Size Effect in the Scattering of X-Rays by Crystals. (T) V. V. Kukol', 9, 649 (1965) [9, 764 (1964)]
- Kuntsevich, T. S. see Belov, N. V. - 117
- Growth Mechanism of Epitaxial Germanium Films in the Iodine Process. (E) G. A. Kurov and I. V. Filatova, 9, 489 (1965) [9, 575 (1964)]
- Kutkin, I. S. see Frinkel', V. M. - 250
- Crystal Structures of the Compounds R_2Si in Rare Earth Metal-Indium Systems. (E) Yu. B. Kus'ma and V. Ya. Markiv, 9, 218 (1964) [9, 279 (1964)]
- A Neutron-Diffraction Study of Garnet Ferrites. (E) Yu. S. Kus'minov, 9, 159 (1964) [9, 204 (1964)]
- Growth Rate of Corundum Faces in Hydrothermal Conditions. (E) V. A. Kusnetsov, 9, 103 (1964) [9, 123 (1964)]
- Kusnetsov, V. A. see Shternberg, A. A. - 101
- Ladyzhenskii, P. B. see Fedulov, S. A. - 428
- Lainer, L. V. see Turovskii, B. M. - 71
- Lamikhov, L. K. see Rezhkin, V. N. - 325
- Larionova, L. S. see Kapustin, A. P. - 235
- Crystal Structure of Magnesium-Rich Phases in Alloys of the Magnesium-Cerium and Magnesium-Neodymium Systems. (E) N. F. Lashko, and G. L. Morozova, 9, 209 (1964) [9, 269 (1964)]
- Morphological Investigation of Artificial Diamond Crystals. (E) G. G. Lemlein, M. O. Kliya, and A. A. Chernov, 9, 181 (1964) [9, 231 (1964)]
- Diffraction of Neutrons by Magnetic Superlattices. (T/E) V. A. Levitik, V. N. Bykov, and V. S. Golovkin, 9, 535 (1965) [9, 629 (1964)]
- Morphology of Gallium Phosphide Crystals Grown from the Vapor. (E) A. V. Lishina, S. A. Medvedev, A. Ya. Nashed'skii, and B. A. Sakharov, 9, 362 (1964) [9, 436 (1964)]
- Synthesis and Properties of Single Crystals of Composition $\text{Na}_2\text{O} \cdot 2\text{MnO} \cdot 2\text{MO}_2$. (E) B. N. Litvin, I. M. Dianova, and L. A. Kachan, 9, 485 (1965) [9, 571 (1964)]
- New Sodium Zincosilicates. (E) B. N. Litvin, O. K. Mel'nikov, V. V. Iyukhin, and A. V. Mikhlin, 9, 795 (1965) [9, 943 (1964)]
- Litvin, B. N. see Dem'yanov, E. A. - 497
- Antiferromagnetism of Chromium-Manganese Alloys. (E) A. A. Loshunov, 9, 301 (1964) [9, 377 (1964)]
- Crystallography of the Twinning of Lead Chloride Monocrystals. (E) S. V. Lubenets, 9, 593 (1965) [9, 705 (1964)]
- Lukanina, I. G. see Bagaryatski, Yu. A. - 397
- Iyubit, K. see Rumsh, M. A. - 678
- Some Trends in the Growth of Epitaxial Layers of GaAs. (E) Kh. A. Magomedov and N. N. Sheftal', 9, 756 (1965) [9, 902 (1964)]
- Malyutina, G. L. see Fomin, V. G. - 178
- X-Ray Diffraction Investigation of the Kinetics of Selenium Crystallization. (E) K. P. Mamedov, and Z. D. Nurieva, 9, 211 (1964) [9, 271 (1964)]
- X-Ray Structural Study of Praseodymium and Samarium Aluminate. (E) N. V. Margolis, N. A. Toropov, and Yu. P. Udalov, 9, 328 (1964) [9, 408 (1964)]
- New Compounds of the MnCuAl and MgZn Types Containing Aluminum and Gallium. (E) V. Ya. Markiv, Yu. V. Voroshilov, P. I. Kripyakevich, and E. E. Cherkashin, 9, 619 (1965) [9, 737 (1964)]

- Markiv, V. Ya. see Kuz'ma Yu. B. - 218
- Martyshev, Yu. N. see Belyaev, L. M. - 96
- Selective Oxidation of a Single Crystal Germanium Surface.
(E) V. N. Maslov, A. V. Ovodova, L. V. Nabatova, and V. S. Bulankin. *p.* 105 (1964) [*p.* 125 (1964)]
- Observation of Dislocation Structures on Etching Highly Doped Germanium. (E) V. N. Maslov, A. V. Ovodova, R. L. Korchazhkina, and L. V. Nabatova. *p.* 481 (1965) [*p.* 568 (1964)]
- Epitaxial Growth of Germanium on Germanium Dendrites. (E) V. N. Maslov, L. J. Dyakonov, A. A. Davydov, and M. P. Shafirov. *p.* 789 (1965) [*p.* 938 (1964)]
- Maslov, V. N. see Davydov, A. A. - 393
- Sroutium Beryllide. (E) N. N. Matyushenko, L. F. Verkhovtina, and V. N. Karav. *p.* 213 (1964) [*p.* 273 (1964)]
- Medyvedev, S. A. see Lishina, A. V. - 362
- Simultaneous Selective Etching of Domains and Dislocations and Their Identification in Triglycine Sulfate Crystals. (E) V. A. Melashina. *p.* 304 (1964) [*p.* 381 (1964)]
- Mel'nikov, O. K. see Litvin, B. N. - 795
- Rotation of the Plane of Polarization in Quartz Near the Phase-Transition Temperature. (E) L. F. Mikhayeva and O. A. Shastin. *p.* 347 (1964) [*p.* 423 (1964)]
- Structure of Thin GaSb Films in the Amorphous State. (E/T) A. G. Mikolajczuk and Ya. I. Dutchak. *p.* 96 (1964) [*p.* 106 (1964)]
- Mil'vidskii, M. G. see Fomin, V. G. 172
- Mironova, Z. A. see Tshenzerling, E. V. - 478
- Mirskaya, K. V. see Kitaigorodskii, A. I. - 137
- Mirskaya, K. V. see Kitaigorodskii, A. I. - 539
- Milenk, M. P. see Gal'perin, E. L. - 81
- Mryukh, Yu. V. see Asadov, Yu. G. - 771
- The Symmetry of β -Uranophane. (E) V. I. Mokeeva. *p.* 218 (1964) [*p.* 275 (1964)]
- The Structure of Sclerowakite. (E) V. I. Mokeeva. *p.* 217 (1964) [*p.* 277 (1964)]
- The Crystal Structure of Kasolite. (E) V. I. Mokeeva. *p.* 621 (1965) [*p.* 738 (1964)]
- Morozova, G. L. see Lashko, N. F. - 209
- Morozova, N. K. see Shalimova, K. V. - 471
- Nabatova, L. V. see Maslov, V. N. - 105
- Nabatova, L. V. see Maslov, V. N. - 481
- Nashel'skii, A. Ya. see Lishina, A. V. - 362
- Electron Diffraction Study of Structural Perfection in the Surface Layer of Silicon. (E) V. D. Nemtsov. *p.* 336 (1964) [*p.* 416 (1964)]
- Crystal Structure of Epidote, $\text{Na}_2\text{Zr}(\text{SiO}_3)_2 \cdot 3\text{H}_2\text{O}$. (E) N. N. Neronova and N. V. Belov. *p.* 700 (1965) [*p.* 828 (1964)]
- Neronova, N. N. see Belov, N. V. - 117
- Nesterenko, V. I. see Ismailzade, I. G. - 332
- Niklitsin, A. V. see Litvin, B. N. - 795
- Nikul'skii, D. see Kruchevskii, E. - 445
- Novak, J. see Canova, P. - 92
- Novikov, A. G. see Fomin, V. G. - 78
- Nuriev, Z. D. see Mametov, K. P. - 211
- Oleksiv, G. I. see Gladyshevskii, E. I. - 269
- Ovodova, A. V. see Maslov, V. N. - 105
- Ovodova, A. V. see Maslov, V. N. - 481
- The Crystal Structure of Calcium Monoborate, $\text{Ca}(\text{BOH})_2 \cdot 2\text{H}_2\text{O}$. (E) Ya. Ozol, S. Vimba, and A. Levins. *p.* 22 (1964) [*p.* 32 (1964)]
- Pakhomova, N. L. see Bryukhatov, N. L. - 432
- On the Nature of the β -Phase in Iron-Aluminum-Carbon Alloys. (E) L. S. Palatnik, I. A. Tanako, and Ya. G. Bobro. *p.* 163 (1964) [*p.* 209 (1964)]
- Groups of Symmetry and of Different Types of Antisymmetry of Borders and Ribbons. (T) A. F. Palistrant and A. M. Zamorzaev. *p.* 123 (1964) [*p.* 155 (1964)]
- Palistrant, A. F. see Zamorzaev, A. M. - 880
- Panova, Ya. I. see Ivukina, A. K. - 473
- Crystallization of Beryllium in a Condensing Column. (E) I. I. Papkov and G. F. Tikhinski. *p.* 347 (1964) [*p.* 310 (1964)]
- Thermal Etching of Beryllium Crystals. (E) I. I. Papkov and G. F. Tikhinski. *p.* 371 (1964) [*p.* 444 (1964)]
- Production of Al_2O_3 Whiskers. (E) V. S. Papkov and G. V. Berezikova. *p.* 388 (1964) [*p.* 443 (1964)]
- Faces of Zero Growth Rate on a Crystal of $\text{K}_2\text{Cr}_2\text{O}_7$. (E) V. F. Parvov and A. V. Shubnikov. *p.* 361 (1964) [*p.* 435 (1964)]
- Apparatus for Growing Crystals from Aqueous Solutions by Evaporation of the Solvent. (E) V. F. Parvov. *p.* 499 (1965) [*p.* 584 (1964)]
- Pavlov, L. P. see Shalimova, K. V. - 340
- Petrovskii, N. N. see Asadov, Yu. G. - 771
- Petrov, I. P. see Gruchevskii, B. N. - 345
- Petrov, I. P. see Dobrzhanskii, G. F. - 781
- Influence of the Medium on the Growth of Potassium Nitrate Crystals from Aqueous Solutions. (E/T) T. G. Petrov. *p.* 448 (1965) [*p.* 541 (1964)]
- Revelation of α - and β -Dislocations in Single Crystal Gallium Arsenide Crystals. (E) R. L. Petrusovich and E. S. Solterinskaya. *p.* 606 (1965) [*p.* 722 (1964)]
- Pidzyrallo, N. S. see Romanov, N. A. - 733
- Electron Diffraction Study of the Compound AgBrTe_2 . (E) Z. G. Pinsker and R. M. Imamov. *p.* 277 (1964) [*p.* 347 (1964)]
- Production and Investigation of Thin Films of Cu_2O . (E/T) Z. G. Pinsker and R. M. Imamov. *p.* 334 (1964) [*p.* 413 (1964)]
- Electron Diffraction Study of the Compound AgBrTe_2 . (E) Z. G. Pinsker and R. M. Imamov. *p.* 465 (1965) [*p.* 556 (1964)]
- Pinsker, Z. G. see Zhukova, L. A. - 31
- Pinsker, Z. G. see Baramova, R. V. - 83
- Pinsker, Z. G. see Imamov, R. M. - 626
- Pinsker, Z. G. see Imamov, R. M. - 721
- Pinsker, Z. G. see Zav'yalova, A. A. - 724
- Pivnik, L. Ya. see Polezhaev, Yu. M. - 630
- Sodium Zirconosilicate and Hafnosilicate Crystals. (E) Yu. M. Polezhaev, L. Ya. Pivnik, and V. G. Chukhantsev. *p.* 630 (1965) [*p.* 747 (1964)]
- A Rule Applicable to Verneuil's Method of Crystal Production. (T/E) A. A. Popova. *p.* 109 (1964) [*p.* 128 (1964)]
- Popova, E. P. see Rumanova, I. M. - 215
- The Role of the Molecular Composition of the Current of Alloying Elements in the Preparation of Silicon and Germanium Layers in Vacuum. (T) V. V. Postnikov. *p.* 237 (1964) [*p.* 300 (1964)]
- Influence of Point Defects on Cross Slip. (E/T) A. A. Predvoditel'nyy, V. V. Rozhnanskiy, V. M. Stepanova, and N. A. Tumanova. *p.* 583 (1965) [*p.* 695 (1964)]
- Crystal Structure of SeSe_2 . (E) V. S. Protasov, and E. I. Gladyshevskii. *p.* 208 (1964) [*p.* 267 (1964)]
- Pudovkina, Z. V. see Pyatenko, Yu. A. - 76
- The Lattice Metric of $\text{CaZrTi}_2\text{O}_7$ Crystals. (E/T) Yu. A. Pyatenko and Z. V. Pudovkina. *p.* 76 (1964) [*p.* 98 (1964)]
- Pyatenko, Yu. A. see Voronkov, A. A. - 461
- Pyn'ko, V. G. see Kirenskiy, L. V. - 872

- Crystal Structures of Some Scandium Aluminides. (E) V. N. Rezhkin, L. K. Lankhovich, and T. I. Samsonova. *9*, 325 (1964) [*9*, 405 (1964)]
- Changes in Certain Optical and Dielectric Properties of Rochelle Salt Crystals Exposed to Hard Radiation. (E/T) N. A. Romanyuk and N. S. Pizdaryallo. *9*, 733 (1965) [*9*, 670 (1964)]
- Changes in the Domain Structure of Rochelle Salt Crystals Exposed to X Rays. (E) N. A. Romanyuk and I. S. Zheleznev. *9*, 738 (1965) [*9*, 676 (1964)]
- Rozhanskii, V. V. see Predvoditel, A. A. - 583
- Measurement of the Index of Refraction of Crystal Powders in Solid Immersion Media. (E) E. D. Ruchkin, Yu. E. Vesnin, and S. S. Batanov. *9*, 632 (1965) [*9*, 749 (1964)]
- Barkhausen Effect in Triglycine Sulfate Crystals. (E) V. M. Rudyak and V. E. Kamaev. *9*, 638 (1965) [*9*, 755 (1964)]
- A New Mineral, Utkonakortite. (E) I. M. Rumanova and E. P. Popova. *9*, 215 (1964) [*9*, 275 (1964)]
- Structure Refinement for $\text{Pr}(\text{NO}_3)_3 \cdot 8\text{H}_2\text{O}$. (E) L. M. Rumanova, G. F. Volodina, and N. V. Belov. *9*, 545 (1965) [*9*, 642 (1964)]
- Interpreting the Electron Diffraction Patterns of Multiply Twinned Crystals. (T/E) M. A. Rumak, K. Lyubits, and P. P. Konorov. *9*, 678 (1965) [*9*, 709 (1964)]
- Rytkin, Yu. F. see Dobrzhanskii, G. F. - 781
- Ryzhova, T. V. see Aleksandrov, K. S. - 298
- Sakharov, B. A. see Likhina, A. V. - 362
- Samsonova, T. I. see Rezhkin, V. N. - 325
- Savchenko, M. K. see Antipin, I. P. - 355
- Savitsky, P. A. see Berman, I. G. - 483
- Thermodynamic Stability and Phase Transformations in Crystals. (T) V. K. Semchenko. *9*, 521 (1965) [*9*, 611 (1964)]
- Hydrated Carbonates of Sodium and Calcium. (E) E. I. Semenov. *9*, 98 (1964) [*9*, 109 (1964)]
- Relation of Growth Rate of Potassium Dichromate Crystals to Depth in Solution. (E) L. S. Semenov and M. V. Gusearova. *9*, 495 (1965) [*9*, 580 (1964)]
- On a Method of Obtaining Single Crystal (Epitaxial) Films of Semiconductors. (E) S. A. Semiletov. *9*, 65 (1964) [*9*, 84 (1964)]
- Structure and Electrical Properties of Lead Telluride Single Crystal Films. (E) S. A. Semiletov and I. P. Voronina. *9*, 405 (1965) [*9*, 486 (1964)]
- Structure and Electrical Properties of Thin Films of InSb . (T) S. A. Semiletov and P. S. Agalarova. *9*, 409 (1965) [*9*, 480 (1964)]
- Semiletov, S. A. see Aikhoshin, S. A. - 488
- Seredinski, B. P. see Shalimova, K. V. - 623
- Shabalina, K. N. see Izyumkin, G. V. - 242
- Shafrosov, M. P. see Maslov, V. N. - 789
- Shakhova, K. I. see Alisova, S. P. - 78
- Shakhova, K. I. see Alisova, S. P. - 343
- Crystal Structure of Cadmium Sulfide Films Deposited on Glass and Metallized Substrates and Heat Treated. (E) K. V. Shalimova, A. F. Andrushko, V. A. Dmitriev, and L. P. Pavlov. *9*, 340 (1964) [*9*, 418 (1964)]
- Effect of Excess Zinc on the Crystal Structure of ZnS . (E) K. V. Shalimova and N. K. Morozova. *9*, 471 (1965) [*9*, 559 (1964)]
- Crystal Structure of ZnTe Films for Various Deviations from Stoichiometric Composition. (E) K. V. Shalimova, A. F. Andrushko, I. Spymleau-Karnaru, and B. P. Seredinski. *9*, 623 (1965) [*9*, 741 (1964)]
- Linear Electro-optical Effect in Cubic Crystals. Phenomenological Theory. (T) V. A. Shambarov. *9*, 566 (1965) [*9*, 672 (1964)]
- Shaskol'skaya, M. P. see Taimzerling, L. G. - 588
- Shebatinov, M. P. see Zhuravlev, N. N. - 95
- Dependence of Growth Rate of Germanium Single-Crystal Layers on Substrate Orientation and Crystallization Conditions in the Gas Phase. (E/T) N. N. Sheftal' and E. I. Givargizov. *9*, 576 (1965) [*9*, 686 (1964)]
- Sheftal', N. N. see Magomedov, Kh. A. - 756
- Sheftal', N. N. see Givargizov, E. I. - 755
- Metallurgical Investigation of Structural Defects (Dislocations) in Indium Antimonide Single Crystals. (E) N. A. Shestakova, M. A. Gurevich, and V. G. Ileva. *9*, 635 (1965) [*9*, 752 (1964)]
- Shovchenko, V. Ya. see Brandt, A. A. - 230
- Study of Perfection in the Structure of Germanium Single Crystals. (E) S. Sh. Shil'shtein. *9*, 610 (1965) [*9*, 727 (1964)]
- Shirokov, A. M. see Shuvalov, L. A. - 746
- Shivrin, O. N. see Germanov, E. P. - 437
- Shnyrov, G. D. see Grochushnikov, B. N. - 345
- Crystallization of Corundum from the Gas Phase onto a Seed. (E) A. A. Sternberg and V. A. Kuznetsov. *9*, 101 (1964) [*9*, 121 (1964)]
- On So-Called Complete Symmetry (Criticism of an Article by I. S. Zheleznev). (T) A. V. Shubnikov. *9*, 502 (1965) [*9*, 587 (1964)]
- Shubnikov, A. V. see Parvov, V. F. - 361
- Ellipsoid of the Optical Dielectric Constant of Quartz Close to the Phase Transformation Temperature. (E) O. A. Shustin. *9*, 776 (1965) [*9*, 925 (1964)]
- Shustin, O. A. see Mikheeva, L. F. - 347
- Change in the Optical Activity of Ferroelectric Crystals on Reversal of Polarization. (T) L. A. Shuvalov and N. R. Ivanov. *9*, 290 (1964) [*9*, 363 (1964)]
- Nonlinearity in the Elasticity of Rochelle Salt Crystals in Mechanical Resonance. (E) L. A. Shuvalov and A. M. Shirokov. *9*, 746 (1965) [*9*, 886 (1964)]
- Silant'eva, I. A. see Tishchenko, G. N. - 26
- Chromium Content of Ruby as a Function of the Quantity in the Original Mixture. (E) V. G. Slivchenko and M. M. Gritsenko. *9*, 647 (1965) [*9*, 763 (1964)]
- The First Stages of Regeneration of Crystals in Solution, with Reference to $\text{KAl}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$, NaBrO_3 , and NaCl . (E) D. P. Sipovskii. *9*, 190 (1964) [*9*, 242 (1964)]
- Sizov, R. A. see Yamin, I. I. - 797
- Skorokhod, M. Ya. see Datsenko, L. I. - 223
- Sleptsov, G. V. see Dem'yanov, E. A. - 761
- Smirnov, Yu. F. see Sviridov, D. T. - 539
- Smirnov, Yu. F. see Sviridov, D. T. - 694
- Possible Superstructures in the n -th Layer of Closest Packing. B Atoms Have 4 or 2; or 4 or 1 Nearest A Atoms. (T) N. L. Smirnova. *9*, 206 (1964) [*9*, 285 (1964)]
- Sollertinskaya, E. S. see Petrushevich, R. L. - 806
- Precise Determination of the Crystal Structure of Bertrandiite $\text{Ba}_3(\text{SO}_4)_2(\text{OH})$. (T) L. P. Solov'eva and N. V. Belov. *9*, 458 (1965) [*9*, 551 (1964)]
- Solunskii, V. I. see Goguzin, Ya. E. - 193
- Solunskii, V. I. see Goguzin, Ya. E. - 491
- Cell Parameters and Diffraction Group of Inderborite. (E) M. N. Solntikova. *9*, 618 (1965) [*9*, 736 (1964)]
- Spiridonov, P. V. see Khodochenko, A. N. - 452
- Spymleau-Karnaru, I. see Shalimova, K. V. - 623
- Stepanova, A. A. see Zhuravlev, N. N. - 95
- Stepanova, A. N. see Givargizov, E. I. - 107
- Stepanova, V. M. see Predvoditel, A. A. - 583
- Stepina, E. I. see Garber, R. L. - 198

- Phase Boundaries and Domain Structure in Ammonium Sulfate Crystals. (E) B. A. Strukov and S. D. Tsohev. 9, 349 (1964) [9, 426 (1964)]
- Problem of the Configurations d^n -Electrons in a Crystal Field. Configurations d^2 and d^3 in a Cubic Field. (T/E) D. T. Sviridov and Yu. F. Smirnov. 9, 529 (1965) [9, 622 (1964)]
- Problem of the Configuration of d^n -Electrons in a Crystal Field. The d^2 and d^3 Configurations in a Cubic Field. (T) D. T. Sviridov, Yu. F. Smirnov, and V. E. Troitskii. 9, 684 (1965) [9, 807 (1964)]
- Electron Diffraction Investigation of Superstructure III of $\text{Pb}_{1-x}\text{Te}_x$ Alloy. (T) A. G. Talybov. 9, 41 (1964) [9, 57 (1964)]
- Asymmetry of Pulse Polarization Reversal in Ferroelectric Crystals of Triglycine Sulfate. (E) D. A. Tambovtsev. 9, 425 (1965) [9, 511 (1964)]
- Tanako, I. A. see Palatnik, L. S. - 163
- Note on an Article by S. Sh. Gendele "Face Morphology of Yttrium-Iron Garnet Crystals." (T) V. B. Tatarskii. 9, 113 (1964) [9, 132 (1964)]
- Absence of Examples of Optically Active Crystals with Planes of Symmetry. (R/T) V. B. Tatarskii. 9, 377 (1964) [9, 451 (1964)]
- The Structure of Boron Crystals Grown from the Melt. (E) F. N. Tavadze, I. A. Baizramashvili, G. V. Tsagareishvili, K. P. Tsomaya, and N. A. Zolde. 9, 768 (1965) [9, 918 (1964)]
- Kinetics of Oriented Dislocations in Irradiated LiF Crystals. (E) I. V. Telegina and E. V. Kolontsova. 9, 272 (1964) [9, 342 (1964)]
- Telegina, I. V. see Kolontsova, E. V. - 221
- Terminasov, Yu. S. see Bratnin, B. M. - 603
- New Laves Phases Containing Manganese. (E) M. Yu. Tezlyuk, P. I. Krtyshevich, and D. P. Frankovich. 9, 469 (1965) [9, 558 (1964)]
- Tikhinskii, G. F. see Papitov, I. I. - 247
- Tikhinskii, G. F. see Papitov, I. I. - 371
- Crystallization of Corundum from the Vapor State by Means of Chemical Reaction. (E) V. A. Timofeeva. 9, 793 (1965) [9, 942 (1964)]
- A Crystallographic Study of Gramicidin S Iodomercurate. (E) G. N. Tishchenko, K. A. Zyklova, and I. A. Silant'eva. 9, 26 (1964) [9, 37 (1964)]
- Electron Microdiffraction Study of the Crystal Structure of the Ferroelectric BiFeO_3 . (E) Yu. Ya. Tomashevskii, Yu. N. Venetsev, and G. S. Zhdanov. 9, 715 (1965) [9, 846 (1964)]
- Toropov, N. A. see Margolis, N. V. - 328
- Tsohev, S. D. see Strukov, B. A. - 349
- Some Optical Properties of the Hexagonal Form of Barium Titanate. (E) L. A. Trifonov. 9, 774 (1965) [9, 923 (1964)]
- Troitskii, V. E. see Sviridov, D. T. - 684
- Tsagareishvili, G. V. see Tavadze, F. N. - 768
- Effect of Growth Rate on the Concentration of Centers of Smoky Color and on the Unit Cell Parameters of Synthetic Quartz Crystals. (E/T) L. I. Tsainober and I. E. Kamenshev. 9, 374 (1964) [9, 448 (1964)]
- The Influence of Li_2Na , Ge, Al Impurities on the Twinning of Artificial Quartz. (E/T) E. V. Tsainzerling. 9, 52 (1964) [9, 69 (1964)]
- Revelation of Dislocations in Quartz by Etching in an Autoclave. (E) E. V. Tsainzerling and Z. A. Mironova. 9, 478 (1965) [9, 565 (1964)]
- Some Observations on Polygonization in Monocrystals of Lithium Fluoride. (E) L. G. Tsainzerling and M. P. Shaskol'skaya. 9, 588 (1965) [9, 701 (1964)]
- Tsomaya, K. P. see Tavadze, F. N. - 768
- Tumanova, N. A. see Predvoditelov, A. A. - 583
- Tuman'yan, Yu. A. see Zakharova, M. I. - 414
- Formation and Structure of 90° Twins of Silicon Single Crystals Grown by the Czochralski Method. (E/T) B. M. Turovskii and L. V. Lainer. 9, 71 (1964) [9, 92 (1964)]
- Formation of Dislocations in Silicon Single Crystals Grown Initially Without Dislocations. (E) B. M. Turovskii. 9, 480 (1965) [9, 598 (1964)]
- Tragaradzhian, R. see Urusovskaya, A. A. - 440
- Study of the Anomalous Scattering of X Rays in Microscopical Single Crystals of Alloys. The First Stage of Aging in Nickel-Beryllium and Copper-Beryllium Alloys. (E/T) Yu. D. Tsypkin and A. V. Gavrilova. 9, 166 (1964) [9, 213 (1964)]
- Investigation of Dislocations in Plate-Like Single Crystals of Cadmium. (E) N. A. Tyapulina and G. M. Zinenkova. 9, 780 (1965) [9, 893 (1964)]
- Udalov, Yu. P. see Margolis, N. V. - 328
- Umanskii, M. M. see Zoria, L. S. - 318
- Dislocation Rosettes in CaF_2 . (E) A. A. Urusovskaya and R. Tragaradzhian. 9, 440 (1965) [9, 531 (1964)]
- Urusovskaya, A. A. see Guseva, I. N. - 359
- Ustinov, V. M. see D'yachenko, O. Ya. - 765
- Coupling Matrices for Structure Factors. (T) B. K. Vainshtein. 9, 5 (1964) [9, 7 (1964)]
- The Contribution from Orientation in the Scattered Intensity from a Molecular Crystal. (T) B. K. Vainshtein. 9, 129 (1964) [9, 163 (1964)]
- Vainshtein, B. K. see Voronova, A. A. - 154
- Vanku, A. see Kruchanu, E. - 445
- Venetsiev, Yu. N. see Fedulov, S. A. - 286
- Venetsiev, Yu. N. see Fedulov, S. A. - 428
- Venetsiev, Yu. N. see Tomashevskii, Yu. Ya. - 715
- Vorbitskaya, T. N. see Ismailzade, I. G. - 332
- Vorokhobin, L. F. see Matyushenko, N. N. - 213
- Vesnin, Yu. E. see Ruchkin, E. D. - 632
- A Refractometric Study of the High-Temperature Phase Transitions in AgNO_3 and Ag_2SO_4 . (E) Yu. I. Vesnin. 9, 228 (1964) [9, 289 (1964)]
- Vimba, S. see Orol, Ya. - 22
- Vitol, I. K. see Belziter, L. K. - 244
- Method of Growing Layers of Altered Composition on a Crystal. (E) B. V. Vitovskii and G. F. Dobrzhaniskii. 9, 493 (1965) [9, 579 (1964)]
- Volkova, E. V. see Gal'perin, E. L. - 81
- Volodina, G. F. see Rumanova, L. M. - 545
- Voronina, I. P. see Semiletov, S. A. - 405
- The Crystal Structure of Stilbellite. (E) A. A. Voronkov, N. G. Batalleva, and Yu. A. Pyatenko. 9, 461 (1965) [9, 553 (1964)]
- An Electron-Diffraction Study of the Crystal Structure of $\text{PbCo}_2\text{PbO}_2\cdot\text{H}_2\text{O}$. (E) A. A. Voronova, and B. K. Vainshtein. 9, 154 (1964) [9, 197 (1964)]
- Voroshilov, Yu. V. see Markiv, V. Ya. - 619
- Analytic Method of Indexing the X-Ray Patterns of Polycrystalline Materials. (T) I. P. Vyrodov. 9, 316 (1964) [9, 397 (1964)]
- A Two-Coordinate Neutron Diffractometer. (E) I. I. Yamin and R. A. Sizov. 9, 797 (1965) [9, 946 (1964)]
- Precipitation of Germanium During the Decomposition of Aluminum-Germanium Solid Solution. (E/T) M. I. Zakharova and Yu. A. Tuman'yan. 9, 414 (1965) [9, 498 (1964)]

- The Number of Generalized Shubnikov Space Groups. (T) A. M. Zamorzaev and A. F. Palistrant. **9**, 660 (1965) [**9**, 778 (1964)]
- Zamorzaev, A. M. see Palistrant, A. F. - 123
- Ternary Intermetallic Compounds with a $BaAl_2$ -Type Superlattice. (E/T) O. S. Zarechnyuk, P. I. Kripyakevich, and E. I. Gladyshevskii. **9**, 706 (1965) [**9**, 835 (1964)]
- A Rapid Planimetric Method for Correcting for Absorption in a Monocrystal. (T/E) A. I. Zaslavskii. **9**, 557 (1965) [**9**, 660 (1964)]
- An Electron-Diffraction Study of Thin Films in the Bi-O System. (E) A. A. Zar'yayova, R. M. Inamov, and Z. G. Plasker. **9**, 724 (1965) [**9**, 857 (1964)]
- Methods of Correcting for Vertical Divergence of the Beam in Diffractometer Measurements of Unit-Cell Parameters. (T/E) L. S. Zevin and M. M. Umanakii. **9**, 318 (1964) [**9**, 399 (1964)]
- Zhdanov, G. S. see Tomashpol'skii, Yu. Ya. - 715
- Axial Tensors of the Third Rank and the Physical Effects They Describe. (T/E) I. S. Zheludev. **9**, 418 (1965) [**9**, 501 (1964)]
- Zheludev, I. S. see Abdalgamidov, S. A. - 476
- Zheludev, I. S. see Romanyuk, N. A. - 738
- An Electron-Diffraction Study of the Structure of Potassium Dichromate. (E) L. A. Zhukova and Z. G. Plasker. **9**, 31 (1964) [**9**, 44 (1964)]
- X-Ray Determination of the Thermal Expansion Coefficients of LaS , CeS , PrS , and NdS . (E) N. N. Zhuraviev, A. A. Sepanova, and M. P. Shebatinov. **9**, 95 (1964) [**9**, 116 (1964)]
- Zinchenkova, G. M. see Tysupnina, N. A. - 750
- Zolde, N. A. see Tsvade, F. N. - 768
- Specific Electrical Resistance of Natural Single Crystals of Magnetite. (E) T. D. Zotov. **9**, 782 (1965) [**9**, 929 (1964)]
- Variation in the Dielectric Constant of Quartz in Response to a Steady Electric Field. (E) V. G. Zubov, M. M. Firsova, and T. M. Glushkova. **9**, 729 (1965) [**9**, 864 (1964)]
- Order-Disorder and Diffraction Properties of a Succession of Layers Closely Adjacent to One Another, Forming the Structures of Schistous Silicates. (T) B. B. Zvyagin. **9**, 672 (1965) [**9**, 791 (1964)]
- Zykalo, K. A. see Tishchenko, G. N. - see 28

SOVIET PHYSICS-CRYSTALLOGRAPHY

Volume 9, 1964

A translation of Kristallografiya Zhurnal

Since the beginning of 1964, all articles in Kristallografiya (and many other Soviet journals) have been coded in accordance with the Universal Decimal Classification. This index is based on the UDC numbers that have appeared in Kristallografiya. Pertinent sections of Universal Decimal Classification are outlined below, followed by citations of all articles pertaining to each numerical heading. Beyond correcting a few obvious typographical errors, no effort was made to evaluate, alter, or simplify the UDC listings in Kristallografiya.

- | | | | |
|------------|---|-----------|---|
| 531.7 | Measurement of Geometric and Mechanical Values of Solids | 548.32 | Overgrowth Crystals. Crystal Rosettes (Brushes) |
| 535 | Optics | 548.33 | Crystal Aggregates. Homogeneous Aggregates |
| 535.14 | Quantum Theory of Light. Photons | 548.34 | Twins. Intergrowths with Many Units |
| 535.3 | Propagation, Refraction, Absorption, Emission, Scattering | 548.35 | Regular Intergrowths of Crystals of Different Substances. |
| 535.32 | Refractive Indices. Scattering | 548.3 | Heterogeneous Aggregates. Graphic Figures |
| 535.323 | Refractive Indices of Solids | | Chemical Crystallography. Chemical Morphology of Crystals |
| 535.34 | Absorption. Absorption Spectra | 548.30 | General Papers |
| 535.36 | The Scattering of Light | 548.31 | Basic Aspects |
| 535.37 | Luminescence. Fluorescence. Phosphorescence | 548.312 | Regular Types of Lattice |
| 535.44 | Special Phenomena Resulting from Interference, Diffraction, and Reflection in Regular Structure, Spectrally, crystals | 548.313 | Special Types of Lattice |
| 535.561 | Properties of Quartz in Parallel and Convergent Light | 548.314 | Distances between Atoms in Lattices |
| 536 | Heat | 548.315 | Coordination in Lattices |
| 536.70 | Thermodynamics. Power. General Works | 548.32 | Isomorphism |
| 537 | Electricity | 548.33 | Polymorphism |
| 537.226 | Dielectrics. Dielectric Strength. Ferroelectricity | 548.4 | Irregularities in Crystals. Inclusions. Anomalies |
| 537.226.1 | Dielectric Constants | 548.5 | Negative Crystals. Shells. Deformation |
| 537.226.33 | Ferroelectricity. Dielectric Hysteresis | 548.51 | Initiation, Growth, and Dissolution of Crystals |
| 537.311.33 | Resistance and Conductivity of Metals, Isotopes, and Anisotropic Solid Nonmetals. Semiconductors | 548.52 | Causes of Initiation. The Initial Stage. Crystal Nuclei |
| 538 | Magnetism and Electromagnetism | 548.52 | Growth Mechanism |
| 538.21 | Magnetic Properties (General Questions) | 548.522 | In Gaseous Media |
| 539 | The Structure of Materials | 548.523 | In a Liquid of Low Viscosity |
| 539.12.04 | Physical, Chemical, and Biological Effect of Radiation | 548.524 | In a Viscous Liquid |
| 539.23 | Production of Thin Films | 548.526 | In a Solid. Diffusion in Solids |
| 539.313 | Relation of Elastic Forces and Deformation | 548.527 | Growth Rate |
| 548 | Crystallography. General Mineralogy | 548.528 | Surface Energy |
| 548.0 | General Papers. Crystallography and Crystal Science as a Whole | 548.53 | Recrystallization. Sequence. Repeated Crystallization |
| 548.0:53 | Crystal Physics | 548.54 | Habit and External Shape of Crystals |
| 548.0:534 | Acoustic Properties of Crystals | 548.55 | Single Crystals. Monocrystalline Products |
| 548.0:535 | Crystal Optics. Optical Properties of Crystals | 548.56 | Liquids of Crystallization (Solvents) |
| 548.0:536 | Thermal Properties of Crystals | 548.57 | Special Properties of Large Crystals |
| 548.0:537 | Electric Properties of Crystals | 548.58 | Dissolution of Crystals |
| 548.0:538 | Magnetic Properties of Crystals | 548.6 | Pseudomorphism of Crystals |
| 548.0:539 | Mechanical Properties (Adhesion) of Crystals | 548.7 | Fine Structure of Crystals. Crystal Discontinuity |
| 548.1 | Mathematical Crystallography. Continuity of Crystals | 548.71 | Geometrical Study of Discontinuity |
| 548.11 | General Laws | 548.73 | X-Ray Analysis of Crystals |
| 548.12 | Science of Symmetry. General Aspects of Primary Forms | 548.732 | X-Ray Optics of Crystals |
| 548.15 | Combinations | 548.733 | Apparatus for X-Ray Examination of Crystals |
| 548.19 | Crystallographic Tables of Angles. Results of Crystal Morphology Measurements | 548.734 | Methods of X-Ray Examination of Crystals |
| 548.2 | Crystal Intergrowths and Aggregates | 548.735 | Determination of Structure and Texture |
| 548.21 | Ingrown Crystals. Groups of Crystals | 548.736 | Structures of Elements and Inorganic Compounds |
| | | 548.736.3 | Binary Inorganic Compounds |
| | | 548.736.4 | Ternary Inorganic Compounds (Excluding Silicates) |
| | | 548.736.5 | Quaternary and Higher Inorganic Compounds (Excluding Silicates) |
| | | 548.736.6 | Silicates |
| | | 548.737 | Structures of Organic Compounds |
| | | 548.74 | Examination with Electrons and Cathode Rays |
| | | 548.75 | Examination with Infrared Radiation |

531.7

Measuring the Density of the α and β Phases of Parachlorobenzene in a Gradient Tube. (E) Yu. G. Asadov, B. D. Korshkov, N. N. Petrov, V. M. Kozhin, and Yu. V. Mayukh. 9, 771 (1965) [9, 921 (1964)]

535

Absorption Surfaces for Crystals of the Various Systems. (R) A. M. Goncharenko, S. V. Grum-Grzhimailo, and F. I. Fedorov. 9, 504 (1965) [9, 589 (1964)]

Linear Electro-optical Effect in Cubic Crystals.

Phenomenological Theory. (T) V. A. Shamburov. 9, 566 (1965) [9, 672 (1964)]

Sodium Zirconosilicate and Hafnosilicate Crystals. (E)

Yu. M. Polezhaev, L. Ya. Pivnik, and V. G. Chukhlantsev. 9, 630 (1965) [9, 747 (1964)]

Measurement of the Index of Refraction of Crystal Powders in Solid Immersion Media. (E) E. D. Rudkin, Yu. E. Vesnin, and S. S. Batzanov. 9, 632 (1965) [9, 749 (1964)]

535.14

Problem of the Configuration of d^n -Electrons in a Crystal Field. The d^1 and d^9 Configurations in a Cubic Field. (T) D. T. Sviridov, Yu. F. Smirnov, and V. E. Troitski. 9, 684 (1965) [9, 807 (1964)]

535.3

Infrared Transmission Spectra of Single Crystals of Copper Chloride and Bromide. (E) G. F. Dobrzanski, L. M. Belyaev, I. P. Petrov, Yu. F. Rybkin, A. E. Fedosov, and K. S. Chernyshev. 9, 781 (1965) [9, 928 (1964)]

535.32

Optical Parameters of Crystals of Sodium Vanadates. (E)

M. P. Glazyrin and A. A. Fotiev. 9, 226 (1964) [9, 287 (1964)]

A Refractometric Study of the High-Temperature Phase Transitions in AgNO_3 and Ag_2SO_4 . (E) Yu. I. Vesnin. 9, 228 (1964) [9, 289 (1964)]

Ellipsoid of the Optical Dielectric Constant of Quartz Close to the Phase Transition Temperature. (E) O. A. Shustin. 9, 776 (1965) [9, 925 (1964)]

Crystallographic and Optical Characteristics of the Vanadates of Certain Rare Earth Elements. (E) M. P. Glazyrin and A. A. Ivakin. 9, 779 (1965) [9, 927 (1964)]

535.323

Some Optical Properties of the Hexagonal Form of Barium Titanate. (E) I. A. Trifonov. 9, 774 (1965) [9, 923 (1964)]

535.34

Some Crystal Chemical and Physical Properties of Monocrystals of Barium Titanate with Cobalt Added. (E) P. Caufva, H. Arend, and J. Novak. 9, 92 (1964) [9, 113 (1964)]

535.36

Internal Conical Refraction of Elastic Waves in Ammonium Dihydrogen Phosphate. (E) K. S. Aleksandrov and T. V. Ryzhova. 9, 298 (1964) [9, 373 (1964)]

535.37

Light Emission During Scratching of Lithium Fluoride Crystals. (E) L. M. Belyaev and Yu. N. Martyshov. 9, 96 (1964) [9, 117 (1964)]

535.44

Moiré Patterns Produced by the Superposition of Two Lattice Figures. (T/E) N. K. Ignat'ev. 9, 562 (1965) [9, 666 (1964)]

535.561

Rotation of the Plane of Polarization in Quartz Near the Phase-Transition Temperature. (E) L. F. Mikhcheva and O. A. Shustin. 9, 347 (1964) [9, 423 (1964)]

536

Thermodynamic Stability and Phase Transformations in Crystals. (T) V. K. Semchenko. 9, 521 (1965) [9, 611 (1964)]

536.70

Tensor of the Derivative of Characteristic Temperature with Respect to Strain for a Molecular Crystal. (T) A. I. Kitaigorodskii. 9, 136 (1964) [9, 171 (1964)]

Calculation of the Lattice Energies of Molecular Crystals. Lattice Energy Surface Cross Sections. (T/E) A. I. Kitaigorodskii, and K. V. Minskaya. 9, 137 (1964) [9, 174 (1964)]

537

Barkhausen Effect in Triglycine Sulfate Crystals. (E) V. M. Rudyak and V. E. Kamaev. 9, 638 (1965) [9, 755 (1964)]

537.226

Change of Polarization of Crystals of Triglycine Sulfate in Linear Periodic Fields with Frequencies of 10^5 to 10^8 cps. (E) A. A. Brandt and V. Ya. Shevchenko. 9, 230 (1964) [9, 292 (1964)]

537.226.1

Variation in the Dielectric Constant of Quartz in Response to a Steady Electric Field. (E) V. G. Zubov, M. M. Pirova, and T. M. Glushkova. 9, 729 (1965) [9, 864 (1964)]

537.226.33

Crystal Chemistry of Ferroelectrics with the Structural Type of Tetragonal Oxygen Tungsten Bronze. (E) N. N. Krainik, V. A. Isupov, M. F. Bryzhina, and A. I. Agranovskaya. 9, 281 (1964) [9, 352 (1964)]

- A Study of the Systems $PbTiO_3$ - $CaSnO_3$ and $PbTiO_3$ - $CaZrO_3$. (E) S. A. Fedulov and Yu. N. Venetsov. *9*, 286 (1964) [*9*, 356 (1964)]
- Change in the Optical Activity of Ferroelectric Crystals on Reversal of Polarization. (T) L. A. Shuvalov and N. R. Ivanov. *9*, 290 (1964) [*9*, 363 (1964)]
- Changes in Certain Optical and Dielectric Properties of Rochelle Salt Crystals Exposed to Hard Radiation. (E/T) N. A. Romanyuk and N. S. Pidzhallo. *9*, 733 (1965) [*9*, 870 (1964)]
- 537.311.33**
- Specific Electrical Resistance of Natural Single Crystals of Magnetite. (E) T. D. Zotov. *9*, 782 (1965) [*9*, 929 (1964)]
- 538**
- Magnetic Reversal of Thin Single Crystal Iron Films. (E) L. V. Kirenskiy, V. G. Pyn'ko, and I. S. Edel'man. *9*, 572 (1965) [*9*, 881 (1964)]
- Effect of Elastic Stresses on the Polarity of the Boundaries of Ferromagnetic Films. (E) V. A. Buravikhin and V. G. Kazakov. *9*, 641 (1965) [*9*, 758 (1964)]
- 538.21**
- Antiferromagnetism of Chromium-Manganese Alloys. (E) A. A. Loshmanov. *9*, 301 (1964) [*9*, 377 (1964)]
- 539**
- Influence of Point Defects on Cross Slip. (E/T) A. A. Predvoditel'ev, V. V. Rozhnanskiy, V. M. Stepanova, and N. A. Tumanova. *9*, 583 (1965) [*9*, 695 (1964)]
- Microscopical and X-Ray Structural Investigation of the Mechanism of Fatigue Failure in Silver Chloride. (E) B. M. Brainin and Yu. S. Terminasov. *9*, 603 (1965) [*9*, 718 (1964)]
- 539.12.04**
- Changes in the Domain Structure of Rochelle Salt Crystals Exposed to X Rays. (E) N. A. R. Romanyuk and I. S. Zheludev. *9*, 738 (1965) [*9*, 878 (1964)]
- 539.23**
- On a Method of Obtaining Single Crystal (Epitaxial) Films of Semiconductors. (E) S. A. Semiletov. *9*, 65 (1964) [*9*, 84 (1964)]
- The Role of the Molecular Composition of the Current of Alloying Elements in the Preparation of Silicon and Germanium Layers in Vacuum. (T) V. V. Postnikov. *9*, 237 (1964) [*9*, 300 (1964)]
- On Conditions for Growing Thin Single Crystal Layers of Semiconductors on a Substrate of Other Than Single Crystal Nature. (E) L. K. Belziter and I. K. Vitol. *9*, 244 (1964) [*9*, 308 (1964)]
- Production and Investigation of Thin Films of Cu_2O . (E/T) Z. G. Pinsker and R. M. Imamov. *9*, 334 (1964) [*9*, 413 (1964)]
- Crystal Structure of Cadmium Sulfide Films Deposited on Glass and Metallized Substrates and Heat Treated. (E) K. V. Shailimova, A. F. Andruschko, V. A. Dmitriev, and L. P. Pavlov. *9*, 340 (1964) [*9*, 418 (1964)]
- Structure and Electrical Properties of Lead Telluride Single Crystal Films. (E) S. A. Semiletov and L. P. Voronina. *9*, 406 (1965) [*9*, 486 (1964)]
- Structure and Electrical Properties of Thin Films of InSb. (T) S. A. Semiletov and P. S. Agalarade. *9*, 409 (1965) [*9*, 490 (1964)]
- Growth of Mercury Selenide and Telluride Single Crystals from the Gas Phase and Their Study. (E) E. Kruchashev, D. Nikul'skiy, and A. Vanku. *9*, 445 (1965) [*9*, 537 (1964)]
- Production of Thin Films of Gallium Antimonide by Evaporation in Vacuum. (E) S. A. Altkhoshin and S. A. Semiletov. *9*, 488 (1965) [*9*, 574 (1964)]
- 539.313**
- Nonlinearity in the Elasticity of Rochelle Salt Crystals in Mechanical Resonance. (E) L. A. Shuvalov and A. M. Shirokov. *9*, 746 (1965) [*9*, 886 (1964)]
- 548**
- Revelation of Dislocations in Quartz by Etching in an Autoclave. (E) E. V. Teinzerling and Z. A. Mironova. *9*, 478 (1965) [*9*, 565 (1964)]
- Production of Thin Films of Gallium Antimonide by Evaporation in Vacuum. (E) S. A. Altkhoshin and S. A. Semiletov. *9*, 488 (1965) [*9*, 574 (1964)]
- Absorption Surfaces for Crystals of the Various Systems. (R) A. M. Gomcharenko, S. V. Grom-Grihmallo, and F. I. Fedorov. *9*, 504 (1965) [*9*, 589 (1964)]
- Thermodynamic Stability and Phase Transformations in Crystals. (T) V. K. Semenchko. *9*, 521 (1965) [*9*, 611 (1964)]
- Linear Electro-optical Effect in Cubic Crystals. Phenomenological Theory. (T) V. A. Shamburov. *9*, 566 (1965) [*9*, 672 (1964)]
- Magnetic Reversal of Thin Single Crystal Iron Films. (E) L. V. Kirenskiy, V. G. Pyn'ko, and I. S. Edel'man. *9*, 572 (1965) [*9*, 681 (1964)]
- Influence of Point Defects on Cross Slip. (E/T) A. A. Predvoditel'ev, V. V. Rozhnanskiy, V. M. Stepanova, and N. A. Tumanova. *9*, 583 (1965) [*9*, 695 (1964)]
- Microscopical and X-Ray Structural Investigation of the Mechanism of Fatigue Failure in Silver Chloride. (E) B. M. Brainin and Yu. S. Terminasov. *9*, 603 (1965) [*9*, 718 (1964)]
- Sodium Zirconosilicate and Hafnosilicate Crystals. (E) Yu. M. Polezhaev, L. Ya. Pivnik, and V. G. Chukhlantsev. *9*, 630 (1965) [*9*, 747 (1964)]
- Measurement of the Index of Refraction of Crystal Powders in Solid Immersion Media. (E) E. D. Rukhkin, Yu. E. Vasin, and S. S. Batsanov. *9*, 632 (1965) [*9*, 749 (1964)]
- Barkhausen Effect in Triglycine Sulfate Crystals. (E) V. M. Rudykh and V. E. Kamaev. *9*, 638 (1965) [*9*, 755 (1964)]
- Effect of Elastic Stresses on the Polarity of the Boundaries of Ferromagnetic Films. (E) V. A. Buravikhin and V. G. Kazakov. *9*, 641 (1965) [*9*, 758 (1964)]
- Measuring the Density of the α and β Phases of Paradichlorobenzene in a Gradient Tube. (E) Yu. G. Asadov, B. D. Koroshkov, N. N. Petropavlov, V. M. Kozhin, and Yu. V. Mnyukh. *9*, 771 (1965) [*9*, 921 (1964)]

548.0

A Study of the Photoconductivity and the Photoelectric State in Monocrystals of Potassium Dichromate. (E/T)
S. A. Abdulgamidov and V. M. Fridkin. *ibid.* **9**, 47 (1964)
ibid. **9**, 63 (1964)

Formation and Structure of 90° Twins of Silicon Single Crystals Grown by the Czochralski Method. (E/T)
B. M. Turovskii and L. V. Lainer. *ibid.* **9**, 71 (1964) *ibid.* **9**, 92 (1964)

Light Emission During Scratching of Lithium Fluoride Crystals. (E) L. M. Belyaev and Yu. N. Martyshev.
ibid. **9**, 96 (1964) *ibid.* **9**, 117 (1964)

Tensor of the Derivative of Characteristic Temperature with Respect to Strain for a Molecular Crystal. (T)
A. I. Kitaigorodskii. *ibid.* **9**, 135 (1964) *ibid.* **9**, 171 (1964)

Calculation of the Lattice Energies of Molecular Crystals. Lattice Energy Surface Cross Sections. (T/E) A. I. Kitaigorodskii, and K. V. Mirskaya. *ibid.* **9**, 137 (1964)
ibid. **9**, 174 (1964)

Optical Parameters of Crystals of Sodium Vanadates. (E)
M. P. Glazyrin and A. A. Fotiev. *ibid.* **9**, 226 (1964) *ibid.* **9**, 287 (1964)
A Refractometric Study of the High-Temperature Phase Transitions in AgNO_3 and Ag_2SO_4 . (E) Yu. I. Vesnin.
ibid. **9**, 228 (1964) *ibid.* **9**, 289 (1964)

Change of Polarization of Crystals of Triglycine Sulfate in Linear Periodic Fields with Frequencies of 10^2 to 10^{-4} cps. (E) A. A. Brandt and V. Ya. Shevchenko. *ibid.* **9**, 230 (1964)
ibid. **9**, 292 (1964)

Internal Conical Refraction of Elastic Waves in Ammonium Dihydrogen Phosphate. (E) K. S. Aleksandrov and T. V. Ryzhova. *ibid.* **9**, 298 (1964) *ibid.* **9**, 373 (1964)

Antiferromagnetism of Chromium-Manganese Alloys. (E)
A. A. Loshakov. *ibid.* **9**, 301 (1964) *ibid.* **9**, 377 (1964)
Achromatic Half-Wave Plate. (E/T) B. N. Grechushnikov, G. D. Shayrev, and I. P. Petrov. *ibid.* **9**, 345 (1964) *ibid.* **9**, 421 (1964)

Rotation of the Plane of Polarization in Quartz Near the Phase-Transition Temperature. (E) L. F. Mikheeva and O. A. Shustin. *ibid.* **9**, 347 (1964) *ibid.* **9**, 423 (1964)

Some Properties of Artificial Fluorite Containing a Trace of Samarium. (E) I. N. Ouseva and A. A. Urusovskaya.
ibid. **9**, 359 (1964) *ibid.* **9**, 432 (1964)

Problem of the Configuration of d^n -Electrons in a Crystal Field. The d^1 and d^2 Configurations in a Cubic Field. (T)
D. T. Sviridov, Yu. F. Smirnov, and V. E. Troitskii.
ibid. **9**, 684 (1965) *ibid.* **9**, 807 (1964)

Variation in the Dielectric Constant of Quartz in Response to a Steady Electric Field. (E) V. G. Zubov, M. M. Firsova, and T. M. Glushkova. *ibid.* **9**, 729 (1965) *ibid.* **9**, 864 (1964)

Changes in Certain Optical and Dielectric Properties of Rochelle Salt Crystals Exposed to Hard Radiation. (E/T)
N. A. Romanyuk and N. S. Pidzhylo. *ibid.* **9**, 733 (1965) *ibid.* **9**, 870 (1964)

Changes in the Domain Structure of Rochelle Salt Crystals Exposed to X Rays. (E) N. A. Romanyuk and I. S. Zheludev.
ibid. **9**, 738 (1965) *ibid.* **9**, 876 (1964)

Nonlinearity in the Elasticity of Rochelle Salt Crystals in Mechanical Resonance. (E) L. A. Shuvalov and A. M. Shirokov.
ibid. **9**, 746 (1965) *ibid.* **9**, 886 (1964)

Some Optical Properties of the Hexagonal Form of Barium Titanate. (E) I. A. Trifonov. *ibid.* **9**, 774 (1965) *ibid.* **9**, 923 (1964)

Ellipsoid of the Optical Dielectric Constant of Quartz Close to the Phase Transformation Temperature. (E) O. A. Shustin.
ibid. **9**, 776 (1965) *ibid.* **9**, 925 (1964)

Infrared Transmission Spectra of Single Crystals of Copper Chloride and Bromide. (E) G. F. Dobrzhanek, L. M. Belyaev, I. P. Petrov, Yu. F. Rybin, A. E. Fedosov, and K. S. Chernyshev. *ibid.* **9**, 781 (1965) *ibid.* **9**, 928 (1964)

Specific Electrical Resistance of Natural Single Crystals of Magnetite. (E) T. D. Zotov. *ibid.* **9**, 782 (1965) *ibid.* **9**, 929 (1964)

548.0:53

Axial Tensors of the Third Rank and the Physical Effects They Describe. (T/E) I. S. Zheludev. *ibid.* **9**, 418 (1965) *ibid.* **9**, 501 (1964)
Problem of the Configurations of d^n -Electrons in a Crystal Field. Configurations d^1 and d^2 in a Cubic Field. (T/E)
D. T. Sviridov and Yu. F. Smirnov. *ibid.* **9**, 529 (1965) *ibid.* **9**, 622 (1964)

548.0:535

Absence of Examples of Optically Active Crystals with Planes of Symmetry. (R/T) V. B. Tatarskii. *ibid.* **9**, 377 (1964) *ibid.* **9**, 451 (1964)

Optical Study of the Compounds Formed in the System $\text{K}_2\text{O}-\text{V}_2\text{O}_5$. (E) M. P. Glazyrin and A. A. Fotiev.
ibid. **9**, 421 (1965) *ibid.* **9**, 506 (1964)

Absorption Surfaces for Crystals of the Various Systems. (R)
A. M. Goncharenko, S. V. Grum-Grezhimailo, and F. I. Fedorov. *ibid.* **9**, 504 (1965) *ibid.* **9**, 589 (1964)
Linear Electro-optical Effect in Cubic Crystals. Phenomenological Theory. (T) V. A. Shamburov. *ibid.* **9**, 566 (1965)
ibid. **9**, 672 (1964)

Sodium Zirconosilicate and Hafnatesilicate Crystals. (E)
Yu. M. Polezhaev, L. Ya. Pivnik, and V. G. Chukhlantsev.
ibid. **9**, 630 (1965) *ibid.* **9**, 747 (1964)

Measurement of the Index of Refraction of Crystal Powders in Solid Immersion Media. (E) E. D. Ruchkin, Yu. E. Vesnin, and S. S. Baisanov. *ibid.* **9**, 632 (1964) *ibid.* **9**, 749 (1964)

548.0:536

Interaction of Vibrations at Natural Frequencies in Crystals. (T/E) E. Z. Govorova and M. M. Firsova. *ibid.* **9**, 383 (1965)
ibid. **9**, 459 (1964)

Thermodynamic Stability and Phase Transformations in Crystals. (T) V. K. Semchenko. *ibid.* **9**, 521 (1965) *ibid.* **9**, 611 (1964)

548.0:537

Asymmetry of Pulse Polarization Reversal in Ferroelectric Crystals of Triglycine Sulfate. (E) D. A. Tambovtsev.
ibid. **9**, 425 (1965) *ibid.* **9**, 511 (1964)

Kinetics of the Development of the Photoelectret State in Additively Colored KCl Single Crystals. (E)
S. A. Abdulgamidov, I. S. Zheludev, and V. M. Fridkin.
ibid. **9**, 476 (1965) *ibid.* **9**, 564 (1964)

Barkhausen Effect in Triglycinesulfate Crystals. (E)
V. M. Rudyak and V. E. Kamaev. *ibid.* **9**, 638 (1965) *ibid.* **9**, 755 (1964)

548.0:538

Induced Anisotropy in Crystals of Iron-Nickel Ferrites with Excess Iron. (E) N. L. Bryukhatov and N. L. Pakhomova.
ibid. **9**, 432 (1965) *ibid.* **9**, 521 (1964)

Magnetic Reversal of Thin Single Crystal Iron Films. (E)
L. V. Kirenkii, V. G. Pyn'ko, and I. S. Edel'man. *ibid.* **9**, 572 (1965) *ibid.* **9**, 681 (1964)

SUBJECT INDEX

- Effect of Elastic Stresses on the Polarity of the Boundaries of Ferromagnetic Films. (E) V. A. Buravikhin and V. G. Kazakov. *9*, 641 (1965) [*9*, 758 (1964)]
- 548.0:539**
- Microhardness of Alkali Halide Crystals. (E) I. G. Berzina, I. B. Berman, and P. A. Savitsnev. *9*, 483 (1965) [*9*, 568 (1964)]
- Special Directions for Elastic Waves in Crystals. (T) A. G. Khatkevich. *9*, 579 (1965) [*9*, 690 (1964)]
- Influence of Point Defects on Cross Slip. (E/T) A. A. Predvoditelev, V. V. Rozhanski, V. M. Stepanova, and N. A. Tumanova. *9*, 583 (1965) [*9*, 695 (1964)]
- Microspectral and X-Ray Structural Investigation of the Mechanism of Fatigue Failure in Silver Chloride. (E) B. M. Bralin and Yu. S. Terminasov. *9*, 603 (1965) [*9*, 718 (1964)]
- 548.1**
- On So-Called Complete Symmetry (Criticism of an Article by I. S. Zhudev). (T) A. V. Shubnikov. *9*, 502 (1965) [*9*, 587 (1964)]
- The Number of Generalized Shubnikov Space Groups. (T) A. M. Zamorzaev and A. F. Palistrant. *9*, 660 (1965) [*9*, 778 (1964)]
- 548.12**
- Crystal Structure Illustrations of Shubnikov Antisymmetry Groups. (T) N. V. Belov, N. N. Neronova, and T. S. Kuntsevich. *9*, 117 (1964) [*9*, 147 (1964)]
- Groups of Symmetry and of Different Types of Antisymmetry of Borders and Ribbons. (T) A. F. Palistrant and A. M. Zamorzaev. *9*, 123 (1964) [*9*, 155 (1964)]
- Change in the Optical Activity of Ferroelectric Crystals on Reversal of Polarization. (T) L. A. Shvalov and N. R. Ivanov. *9*, 280 (1964) [*9*, 363 (1964)]
- Nomenclature of the Bravais Lattices. (T) N. V. Belov. *9*, 315 (1964) [*9*, 396 (1964)]
- Magnetic Structure Close to the Curie Point. (T) O. V. Kovalov. *9*, 665 (1965) [*9*, 783 (1964)]
- 548.19**
- Crystallographic and Optical Characteristics of the Vanadates of Certain Rare Earth Elements. (E) M. P. Glazyrin and A. A. Ivakin. *9*, 779 (1965) [*9*, 927 (1964)]
- 548.2**
- Crystallography of the Twinning of Lead Chloride Monocrystals. (E) S. V. Lubenets. *9*, 593 (1965) [*9*, 708 (1964)]
- 548.24**
- The Influence of Li, Na, Ge, Al Impurities on the Twinning of Artificial Quartz. (E/T) E. V. Tsimmerling. *9*, 52 (1964) [*9*, 69 (1964)]
- Formation and Structure of 90° Twins of Silicon Single Crystals Grown by the Czochralski Method. (E/T) B. M. Turovskii and L. V. Lashin. *9*, 71 (1964) [*9*, 92 (1964)]
- 548.3**
- Some Crystal Chemical and Physical Properties of Monocrystals of Barium Titanate with Cobalt Added. (E) P. Caulova, H. Arend, and J. Novak. *9*, 82 (1964) [*9*, 113 (1964)]
- The Influence of Impurities on the Properties of Barium Titanate. (E) A. Yu. Kudzin. *9*, 233 (1964) [*9*, 295 (1964)]
- Polymorphism of Zirconium Dichromide. (E) S. P. Alisova, P. B. Rudberg, and K. I. Shakhova. *9*, 343 (1964) [*9*, 419 (1964)]
- Effect of Excess Zinc on the Crystal Structure of ZnS. (E) K. V. Shalimova and N. K. Morozova. *9*, 471 (1965) [*9*, 559 (1964)]
- Calculation of the Lattice Energies of Molecular Crystals. Energy of a Dipole Lattice. (T) A. I. Klisagorodskii and K. V. Mirekaya. *9*, 639 (1965) [*9*, 634 (1964)]
- 548.30**
- New Examples of the Structural Type Li_2Pb_2 . (E) E. I. Gladyshevskii, G. I. Oleksiv, and P. I. Krip'yakovich. *9*, 269 (1964) [*9*, 338 (1964)]
- Crystal Chemistry of Ferroelectrics with the Structural Type of Tetragonal Oxygen Tungsten Bronze. (E) N. N. Kraluk, V. A. Isupov, M. F. Bryzhina, and A. I. Agranovskaya. *9*, 381 (1964) [*9*, 352 (1964)]
- 548.312**
- The Lattice Metric of $CaZrTi_2O_7$ Crystals. (E/T) Yu. A. Pyatenko and Z. V. Pudovkina. *9*, 76 (1964) [*9*, 98 (1964)]
- 548.313**
- Order-Disorder and Diffraction Properties of a Succession of Layers Closely Adjacent to One Another, Forming the Structures of Schistous Silicates. (T) B. B. Zvyagin. *9*, 672 (1965) [*9*, 791 (1964)]
- 548.4**
- Theory of Stress and Dislocation Formation in the Growth of Crystals. (T/E) V. L. Indenbom. *9*, 57 (1964) [*9*, 74 (1964)]
- The Domain Structure in Monocrystals of Rochelle Salt. (E) I. Ya. Eissner. *9*, 90 (1964) [*9*, 111 (1964)]
- Some Structural Peculiarities of Highly Doped Silicon Single Crystals. (E) V. G. Fomin, M. G. Mil'vidskii, S. P. Grishina, N. S. Belyakskaya, and M. A. Gurevich. *9*, 172 (1964) [*9*, 219 (1964)]
- On the Distribution of Doping Additions of Gold in Germanium Single Crystals. (E) V. G. Fomin, G. L. Malyutina, M. A. Gurevich, and A. G. Novikov. *9*, 178 (1964) [*9*, 227 (1964)]
- The First Stages of Regeneration of Crystals in Solution, with Reference to $KAl(SO_4)_2 \cdot 12H_2O$, $NaBrO_3$, and $NaCl$. (E) D. P. Sipovskii. *9*, 190 (1964) [*9*, 242 (1964)]
- The Mechanism and Growth of Negative Crystals (Holes) During the Mutual Diffusion in Alkali Halide Monocrystals (KCl-KBr System). (E/T) Ya. E. Geguzin, V. I. Solunskii, and Yu. S. Kaganovskii. *9*, 193 (1964) [*9*, 248 (1964)]
- Study of Secondary Cleavage in Calcite Crystals. (E) R. I. Garber and E. I. Stepina. *9*, 198 (1964) [*9*, 255 (1964)]

- Propagation of Dislocations in Irradiated Crystals. (E) I. G. Bersina and I. B. Berman. *2*, 202 (1964) [2, 260 (1964)]
- Effects of X Rays on the Structure of Pentaerythritol. (E) E. V. Kolontsova and I. V. Telegina. *2*, 221 (1964) [2, 282 (1964)]
- Investigation of Crack Propagation in Some Single Crystals. (E/T) V. M. Frinkel' and I. S. Kutkin. *2*, 250 (1964) [2, 314 (1964)]
- Kinetics of Oriented Dislocations in Irradiated LiF Crystals. (E) I. V. Telegina and E. V. Kolontsova. *2*, 272 (1964) [2, 342 (1964)]
- Simultaneous Selective Etching of Domains and Dislocations and Their Identification in Triglycine Sulfate Crystals. (E) V. A. Meleshina. *2*, 304 (1964) [2, 381 (1964)]
- Thermal Etching of Beryllium Crystals. (E) I. I. Papirov and G. F. Tikhnitski. *2*, 371 (1964) [2, 444 (1964)]
- Precipitation of Germanium During the Decomposition of Aluminium-Germanium Solid Solution. (E/T) M. I. Zakharova and Yu. A. Tuman'yan. *2*, 414 (1965) [2, 498 (1964)]
- Changes in the Integral Intensity of X-Ray Reflections from Plastically Deformed Molybdenum During Low-Temperature Relaxation. (E) E. P. Germanov and O. N. Shvirin. *2*, 437 (1965) [2, 527 (1964)]
- Dislocation Rosettes in Cu. (E) A. A. Urusovskaya and R. Tvagradzhian. *2*, 440 (1965) [2, 531 (1964)]
- Formation of Dislocations in Silicon Single Crystals Grown Initially Without Dislocations. (E) B. M. Turovskii. *2*, 480 (1965) [2, 568 (1964)]
- Observation of Dislocation Structures on Etching Highly Doped Germanium. (E) V. N. Maslov, A. V. Ovodova, R. L. Korzhanskina, and L. V. Nabatova. *2*, 481 (1965) [2, 568 (1964)]
- Some Observations on Polygonization in Monocrystals of Lithium Fluoride. (E) L. G. Tinslering and M. P. Shaskol'skaya. *2*, 588 (1965) [2, 701 (1964)]
- Decorations of the Microstructure of Alkali Halide Crystals on Decomposition of Solid Solutions. (E) A. A. Zlango and R. I. Gindina. *2*, 598 (1965) [2, 712 (1964)]
- Revelation of α - and β -Dislocations in Single Crystal Gallium Arsenide Crystals. (E) R. L. Petrushevich and E. S. Soltertnakaya. *2*, 606 (1965) [2, 722 (1964)]
- Metallographical Investigation of Structural Defects (Dislocations) in Indium Antimonide Single Crystals. (E) N. A. Shostakova, M. A. Gurevich, and V. S. Ivleva. *2*, 636 (1965) [2, 752 (1964)]
- Habit of Graphite Crystals. (E) A. A. Baranov. *2*, 644 (1965) [2, 759 (1964)]
- Electron Microscope Study of the Domain and Dislocation Structure in the Ordered Alloy Mg_2Cd . (E) L. S. Bushnev and L. P. Kitayeva. *2*, 740 (1965) [2, 879 (1964)]
- Investigation of Dislocations in Plate-Like Single Crystals of Cadmium. (E) N. A. Tyapunina and G. M. Zinenkova. *2*, 750 (1965) [2, 893 (1964)]
- Reversible Decoration of Defects in Synthetic Ruby. (E) M. A. Chernysheva. *2*, 783 (1965) [2, 931 (1964)]
- Different Forms of Packing Defects in Synthetic Layers of Germanium. (E) E. I. Givargizov and N. N. Sheftal'. *2*, 785 (1965) [2, 933 (1964)]
- Selective Oxidation of a Single Crystal Germanium Surface. (E) V. N. Maslov, A. V. Ovodova, L. V. Nabatova, and V. S. Bulankin. *2*, 105 (1964) [2, 125 (1964)]
- On the Nature of the ϵ -Phase in Iron-Aluminum-Carbon Alloys. (E) L. S. Palatnik, I. A. Tanako and Yu. G. Bobro. *2*, 163 (1964) [2, 209 (1964)]
- The Role of the Molecular Composition of the Current of Alloying Elements in the Preparation of Silicon and Germanium Layers in Vacuum. (T) V. V. Postnikov. *2*, 237 (1964) [2, 300 (1964)]
- Production and Investigation of Thin Films of Cu_2O . (E/T) Z. G. Pinsker and R. M. Imamov. *2*, 334 (1964) [2, 413 (1964)]
- Faces of Zero Growth Rate on a Crystal of $K_2Cr_2O_7$. (E) V. F. Parvov and A. V. Shubnikov. *2*, 361 (1964) [2, 435 (1964)]
- Theory of Dendrite Growth in Germanium. (T) A. A. Davydov and V. N. Maslov. *2*, 393 (1965) [2, 472 (1964)]
- Structure and Electrical Properties of Lead Telluride Single Crystal Films. (E) S. A. Semiletov and I. P. Voronina. *2*, 405 (1965) [2, 486 (1964)]
- Structure and Electrical Properties of Thin Films of InSb. (T) S. A. Semiletov and P. S. Agalarzade. *2*, 409 (1965) [2, 490 (1964)]
- Growth of Mercury Selenide and Telluride Single Crystals from the Gas Phase and Their Study. (E) E. Kruchemni, D. Nikulesku, and A. Vanku. *2*, 445 (1965) [2, 537 (1964)]
- Some Properties of Hexagonal Celsian Obtained by the Verneuil Method. (E) A. K. Ivkina and Ya. I. Panova. *2*, 473 (1965) [2, 560 (1964)]
- Synthesis and Properties of Single Crystals of Composition $Na_2O \cdot 2MnO \cdot 2SiO_2$. (E) B. N. Litvin, I. M. Dianova, and L. A. Kachan. *2*, 485 (1965) [2, 571 (1964)]
- Growth Mechanism of Epitaxial Germanium Films in the Iodide Process. (E) G. A. Kurov and I. V. Filatova. *2*, 489 (1965) [2, 575 (1964)]
- Growth of Negative Crystals (Pores) in the Diffusion Zone in the Mutual Diffusion of Alkali Halide Single Crystals. Ya. E. Geguzin and V. I. Solomskii. *2*, 491 (1965) [2, 577 (1964)]
- Method of Growing Layers of Altered Composition on a Crystal. (E) B. V. Vliovskii and G. F. Dobrzhaniskii. *2*, 493 (1965) [2, 579 (1964)]
- Relation of Growth Rate of Potassium Dichromate Crystals to Depth in Solution. (E) L. S. Semenova and M. V. Gusearova. *2*, 495 (1965) [2, 580 (1964)]
- Apparatus for Growing Crystals from Aqueous Solutions by Evaporation of the Solvent. (E) V. F. Parvov. *2*, 499 (1965) [2, 584 (1964)]
- Chromium Content of Ruby as a Function of the Quantity in the Original Mixture. (E) V. G. Sil'nicheenko and M. M. Gritsenko. *2*, 647 (1965) [2, 763 (1964)]
- Growing of Ionic Crystals with Small Dislocation Densities. (E) A. A. Alybakov, G. F. Dobrzhaniskii, and V. A. Gubanova. *2*, 791 (1965) [2, 940 (1964)]

549.52

- Growth Rate of Corundum Faces in Hydrothermal Conditions. (E) V. A. Kuznetsov. *2*, 103 (1964) [2, 123 (1964)]
- On the Entry of Lead Impurities into KCl Crystals under the Influence of Vibration. (E) G. M. Koonnikova and A. P. Izergin. *2*, 110 (1964) [2, 130 (1964)]
- X-Ray Diffraction Investigation of the Kinetics of Selenium Crystallization. (E) K. P. Mamedov and Z. D. Nurieva. *2*, 211 (1964) [2, 271 (1964)]

548.5

- On a Method of Obtaining Single Crystal (Epitaxial) Films of Semiconductors. (E) S. A. Semiletov. *2*, 65 (1964) [2, 84 (1964)]

- Shock Waves at the Centers of Growth on the Faces of Tetrahedra and Cubes of NaBrO_3 Crystals.** (F) A. P. Kasatkina. **239** (1964) [9, 302 (1964)]
- On Conditions for Growing Thin Single Crystal Layers of Semiconductors on a Substrate of Other Than Single Crystal Nature.** (E) L. K. Belzter and I. K. Vitol. **244** (1964) [9, 308 (1964)]
- Growth Forms of Macroscopic Steps. Development of Faces on the Ends of the Steps.** (T) A. A. Chernov and S. I. Budurov. **309** (1964) [9, 388 (1964)]
- Production and Some Properties of Indium Antimonide-Gallium Antimonide Heterojunctions.** (E) N. K. Kiseleva. **365** (1964) [9, 430 (1964)]
- Production of Al_2O_3 Whiskers.** (E) V. S. Papkov and G. V. Borzhkova. **368** (1964) [9, 442 (1964)]
- Growth Forms of Macroscopic Steps. Smooth Curvature of the End Faces and the Formation of Inclusions.** (T/E) A. A. Chernov and S. I. Budurov. **388** (1965) [9, 466 (1964)]
- Influence of the Medium on the Growth of Potassium Nitrate Crystals from Aqueous Solutions.** (E/T) T. G. Petrov. **448** (1965) [9, 541 (1964)]
- Possibility of Hydrothermally Synthesizing Cadmium Tungstate.** (E) L. N. Dem'yanets and B. N. Litvin. **497** (1965) [9, 582 (1964)]
- Chemical Crystallization of Germanium in the Open Iodide Process.** (E) E. A. Dem'yanov, V. N. Kolesnikov, and G. V. Sleptsov. **761** (1965) [9, 910 (1964)]
- 548.522**
- Crystallization of Corundum from the Gas Phase Onto a Seed.** (E) A. A. Shternberg and V. A. Kunnetsov. **101** (1964) [9, 121 (1964)]
- A Rule Applicable to Vernau's Method of Crystal Production.** (T/E) A. A. Popova. **109** (1964) [9, 128 (1964)]
- Crystallization of Beryllium in a Condensing Column.** (E) I. I. Papirov and G. F. Tikhinskii. **247** (1964) [9, 310 (1964)]
- Morphology of Gallium Phosphide Crystals Grown from the Vapor.** (E) A. V. Lishina, S. A. Medvedev, A. Ya. Nashed'skii, and B. A. Sakharov. **362** (1964) [9, 436 (1964)]
- Dependence of Growth Rate of Germanium Single-Crystal Layers on Substrate Orientation and Crystallization Conditions in the Gas Phase.** (E/T) N. N. Sheftal' and E. I. Givargizov. **576** (1965) [9, 686 (1964)]
- Some Trends in the Growth of Epitaxial Layers of GaAs.** (E) Kh. A. Magomedov and N. N. Sheftal'. **756** (1965) [9, 902 (1964)]
- Epitaxis of Germanium on Germanium Dendrites.** (E) V. N. Maslov, L. J. D'yakonov, A. A. Davydov, and M. P. Shafirostov. **789** (1965) [9, 938 (1964)]
- Crystallization of Corundum from the Vapor State by Means of Chemical Reaction.** (E) V. A. Timofeeva. **793** (1965) [9, 942 (1964)]
- 548.523**
- New Sodium Zirconosilicates.** (E) B. N. Litvin, O. K. Mel'nikov, V. V. Ilyukhin, and A. V. Nikitin. **795** (1965) [9, 943 (1964)]
- 548.527**
- Rate of Rotating Crystals and Characteristics of Their Growth.** (E) G. V. Ilyushkin and K. N. Shabalin. **242** (1964) [9, 306 (1964)]
- Effect of Growth Rate on the Concentration of Centers of Smoky Color and on the Unit Cell Parameters of Synthetic Quartz Crystals.** (E/T) L. I. Teinobor and I. E. Kamenshev. **374** (1964) [9, 448 (1964)]
- 548.54**
- Note on an Article by S. Sh. Gendelov "Face Morphology of Yttrium-Iron Garnet Crystals."** (T) V. B. Tatarskii. **113** (1964) [9, 132 (1964)]
- Morphological Investigation of Artificial Diamond Crystals.** (E) G. G. Lemmlein, M. O. Kliya, and A. A. Chernov. **181** (1964) [9, 231 (1964)]
- Morphology of Gallium Phosphide Crystals Grown from the Vapor.** (E) A. V. Lishina, S. A. Medvedev, A. Ya. Nashed'skii, and B. A. Sakharov. **362** (1964) [9, 436 (1964)]
- 548.56**
- Behavior of Anisotropic Liquids in an Electric Field.** (E) A. P. Kapustin and L. S. Lariionova. **235** (1964) [9, 297 (1964)]
- 548.7**
- Mechanism of Secondary Decoration of Crystal Surfaces.** (E) G. I. Distler and S. A. Daryusina. **99** (1964) [9, 119 (1964)]
- Structural Imperfections of Epitaxial Germanium Layers.** (E) E. I. Givargizov and A. N. Stepanova. **107** (1964) [9, 127 (1964)]
- Electron Diffraction Study of Structural Perfection in the Surface Layer of Silicon.** (E) V. D. Nemtsov. **336** (1964) [9, 416 (1964)]
- Phase Boundaries and Domain Structure in Ammonium Sulfate Crystals.** (E) B. A. Strukov and S. D. Toshov. **349** (1964) [9, 426 (1964)]
- Domain Structure of Single Crystals of Thulium, Dysprosium, and Terbium Ferrite-Garnets.** (E) A. I. Drakin and B. V. Beznosikov. **352** (1964) [9, 427 (1964)]
- Domain Structure of Nickel Crystals Subjected to Mechanical Deformation.** (E) I. P. Antipin, L. V. Kirenski, and M. K. Savchenko. **355** (1964) [9, 429 (1964)]
- 548.71**
- Possible Superstructures in the n -th Layer of Closest Packing.** (E) B. A. Magomedov and N. N. Sheftal'. **756** (1965) [9, 902 (1964)]
- 548.73**
- Analytic Method of Indexing the X-Ray Patterns of Polycrystalline Materials.** (T) L. P. Vyrodov. **316** (1964) [9, 397 (1964)]
- A Theoretical Expression of the Interference Function Corresponding to the Particle Size Effect in the Scattering of X-Rays by Crystals.** (T) V. V. Kukol'. **649** (1965) [9, 764 (1964)]
- 548.733**
- Study of the Anomalous Scattering of X Rays in Microscopical Single Crystals of Alloys. The First Stage of Aging in Nickel-Beryllium and Copper-Beryllium Alloys.** (E/T)

- Yu. D. Tyapkin and A. V. Gavrilova. 9, 166 (1964) [9, 213 (1964)]
- Application of Crystal Scanning in the Case of Anomalous Transmission of X Rays. (E) L. I. Datsenko and M. Ya. Skorokhod. 9, 223 (1964) [9, 284 (1964)]
- 549,733**
- Methods of Correcting for Vertical Divergence of the Beam in Diffractometer Measurements of Unit-Cell Parameters. (T/E) L. S. Zevin and M. M. Umanakli. 9, 318 (1964) [9, 399 (1964)]
- Device for Rietveld Oriented Crystals. (E) Yu. N. Kazakov. 9, 500 (1965) [9, 585 (1964)]
- A Two-Coordinate Neutron Diffractometer. (E) I. I. Yamsin and R. A. Sizov. 9, 797 (1965) [9, 946 (1964)]
- 549,734**
- Coupling Matrices for Structure Factors. (T) B. K. Vainshtein. 9, 5 (1964) [9, 7 (1964)]
- X-Ray Determination of the Thermal Expansion Coefficients of LaS, CeS, PrS, and NdS. (E) N. N. Zhuraviev, A. A. Stepanova, and M. P. Shebatinov. 9, 95 (1964) [9, 116 (1964)]
- The Contribution from Orientation in the Scattered Intensity from a Molecular Crystal. (T) B. K. Vainshtein. 9, 129 (1964) [9, 162 (1964)]
- Program for Finding the Atomic Scattering Factors of a Centrosymmetrical Crystal Structure from the Zero Experimental Structure Amplitudes by the Method of Least Squares. (T) F. A. Brusentsev. 9, 257 (1964) [9, 323 (1964)]
- Extraction of Crystal Structure from a Set of Patterson Peaks by Means of a Computer. (T) F. A. Brusentsev and S. V. Borisov. 9, 262 (1964) [9, 330 (1964)]
- Principle of a Structure Amplitude Computing Program for All 230 Symmetry Groups. (T) T. S. Kamenskaya. 9, 266 (1964) [9, 336 (1964)]
- Analysis of the Character of X-Ray Diffuse Scattering in Iron-Nickel-Aluminum Alloys. (T) Yu. A. Bagaryatskii and I. G. Lukina. 9, 397 (1965) [9, 477 (1964)]
- Modification of the Least-Squares Method in Structure Analysis. (T) V. F. Dvoryankin and F. A. Brusentsev. 9, 455 (1965) [9, 548 (1964)]
- Systematic Analysis of the Patterson Function. Specification of Symmetry and Determination of Fragments of Structure for Crystals of Low Symmetry. (T) S. V. Borisov. 9, 515 (1965) [9, 603 (1964)]
- A Rapid Planimetric Method for Correcting for Absorption in a Monocrystal. (T/E) A. I. Zaslavskii. 9, 557 (1965) [9, 660 (1964)]
- Study of Perfection in the Structure of Germanium Single Crystals. (E) S. Sh. Shil'shtein. 9, 610 (1965) [9, 727 (1964)]
- The Variation of the Integral Characteristics of Potential Distribution in Atoms with Atomic Number. (T) V. F. Dvoryankin, G. G. Dvoryankina, V. N. Kolomichuk, and F. A. Brusentsev. 9, 613 (1965) [9, 730 (1964)]
- Sections of the Doubled Patterson Function. (T) V. N. Ryzhikhin and N. V. Belov. 9, 655 (1965) [9, 771 (1964)]
- 549,735**
- An Analytical Representation of the Integral Characteristics of the Electron Density and Potential Distribution in Atoms. (T) V. F. Dvoryankin. 9, 132 (1964) [9, 167 (1964)]
- 549,736**
- The Crystal Structure of Calcium Monoborate, $\text{Ca}(\text{BO}_2)_2 \cdot 2\text{H}_2\text{O}$. (E) Ya. Ozol, S. Vilma, and A. Ievins. 9, 22 (1964) [9, 32 (1964)]
- Crystal Structure of the Compound HfCr_2 . (E) S. P. Alisova, P. B. Budberg, and K. I. Shakhova. 9, 78 (1964) [9, 100 (1964)]
- X-Ray Goniometric Study of Phenaksite. (E) V. P. Golovachev. 9, 80 (1964) [9, 101 (1964)]
- Study of the Copper-Tellurium System in Thin Films. (E) R. V. Baranova and Z. G. Pinsker. 9, 83 (1964) [9, 104 (1964)]
- Hydrated Carbonates of Sodium and Calcium. (E) E. I. Semenov. 9, 88 (1964) [9, 109 (1964)]
- Crystal Structure of $\text{ZnSeO}_4 \cdot 2\text{H}_2\text{O}$. (E) V. F. Gladkova and Yu. D. Kondrashev. 9, 148 (1964) [9, 190 (1964)]
- An Electron-Diffraction Study of the Crystal Structure of $\text{PbCo}_2\text{PbO} \cdot 2\text{H}_2\text{O}$. (E) A. A. Voronova, and B. K. Vainshtein. 9, 154 (1964) [9, 197 (1964)]
- A Neutron-Diffraction Study of Garnet Ferrites. (E) Yu. S. Kuz'minov. 9, 159 (1964) [9, 204 (1964)]
- Crystal Structure of SnBe_2 . (E) V. S. Protasov and E. I. Gladyshevskii. 9, 208 (1964) [9, 267 (1964)]
- Crystal Structure of Magnesium-Rich Phases in Alloys of the Magnesium-Cerium and Magnesium-Neodymium Systems. (E) N. F. Lashko and G. L. Morozova. 9, 209 (1964) [9, 269 (1964)]
- Strontium Beryllide. (E) N. N. Matyushenko, L. F. Verkhorobin, and V. N. Karev. 9, 213 (1964) [9, 273 (1964)]
- The Symmetry of β -Uranophane. (E) V. I. Mokeeva. 9, 215 (1964) [9, 275 (1964)]
- A New Mineral, Utkonokovite. (E) I. M. Rumanova and E. P. Popova. 9, 215 (1964) [9, 275 (1964)]
- The Structure of Sklodovskite. (E) V. I. Mokeeva. 9, 217 (1964) [9, 277 (1964)]
- Crystal Structures of the Compounds RIn_2 in Rare Earth Metal-Indium Systems. (E) Yu. B. Kuz'ma and V. Ya. Markiv. 9, 218 (1964) [9, 279 (1964)]
- New Compounds with the Pyrochlore Structure. (E) I. N. Belyaev, L. N. Aver'yanova, and I. I. Belyaeva. 9, 220 (1964) [9, 280 (1964)]
- Structural Changes and Anomalies in the Electrical Properties During the Phase Transition in PbCoWO_6 . (E) V. S. Filip'ev and E. G. Fesenko. 9, 231 (1964) [9, 293 (1964)]
- A Study of the Systems PbTiO_3 - CaSnO_3 and PbTiO_3 - CaZrO_3 . (E) S. A. Fedulov and Yu. N. Venevsev. 9, 236 (1964) [9, 358 (1964)]
- Crystal Structures of Some Scandium Aluminides. (E) V. N. Rezhkin, L. K. Laminikov, and T. I. Samsonova. 9, 325 (1964) [9, 405 (1964)]
- X-Ray Structural Study of Praseodymium and Samarium Aluminates. (E) N. V. Margolis, N. A. Toropov, and Yu. P. Udakov. 9, 328 (1964) [9, 408 (1964)]
- Compounds with the α -Mn Superstructure in the Rare Earth-Magnesium System. (E) P. I. Krivyakovich, V. I. Evdokimenko, and E. I. Gladyshevskii. 9, 330 (1964) [9, 410 (1964)]
- Preliminary Results from an X-Ray Structural Study of the Ferroelectric Ceramic VK-3 at Constant Electric Field. (E) I. G. Ismailzade, T. N. Verbitskaya, and V. I. Nesterenko. 9, 332 (1964) [9, 412 (1964)]
- Crystal Structure of Zinc Selenide Films. (E) I. Dima. 9, 338 (1964) [9, 417 (1964)]

- Crystal Structure of Cadmium Sulfide Films Deposited on Glass and Metallized Substrates and Heat Treated. (E) K. V. Shalimova, A. F. Andrushko, V. A. Dmitriev, and L. P. Pavlov. *9*, 340 (1964) [9, 418 (1964)]
- Study of the $\text{BiFeO}_3\text{-LaAlO}_3$ System. (E) S. A. Fedulov, P. B. Ladyzhenskii, and Yu. N. Venetsev. *9*, 428 (1965) [9, 516 (1964)]
- Precise Determination of the Crystal Structure of Bertrandite $\text{Ba}_2(\text{Si}_2\text{O}_7)(\text{OH})_2$. (T) L. P. Solov'eva and N. V. Belov. *9*, 458 (1965) [9, 551 (1964)]
- The Crystal Structure of Stilbellite. (E) A. A. Voronkov, N. G. Batalieva, and Yu. A. Pyatenko. *9*, 461 (1965) [9, 553 (1964)]
- Crystal Structure of a Magnesium-Rich Compound in the Praseodymium-Magnesium System. (E) V. I. Evdokimenko and P. I. Kripyakevich. *9*, 463 (1965) [9, 554 (1964)]
- Electron Diffraction Study of the Compound AgSbTe_2 . (E) Z. G. Pinsker and R. M. Imamov. *9*, 465 (1965) [9, 556 (1964)]
- Existence of Short-Range Order in Gold-Palladium Alloys. (E) V. I. Iveronova and A. A. Katsnel'son. *9*, 467 (1965) [9, 557 (1964)]
- New Laves Phases Containing Manganese. (E) M. Yu. Tselyuk, P. I. Kripyakevich, and D. P. Frankovich. *9*, 469 (1965) [9, 558 (1964)]
- Crystal Refinement for $\text{Pr}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$. (E) L. M. Rumanova, G. F. Volodina, and N. V. Belov. *9*, 545 (1965) [9, 642 (1964)]
- X-Ray and Thermogravimetric Studies of the Octahydrates of the Sulfates of the Lanthanides and Yttrium. (E) V. I. Ivanov. *9*, 553 (1965) [9, 655 (1964)]
- New X-Ray Data Regarding Halurgite and Inderborite. (E) V. V. Kondrat'eva. *9*, 616 (1965) [9, 735 (1964)]
- Cell Parameters and Diffraction Group of Inderborite. (E) M. N. Sotnikova. *9*, 618 (1965) [9, 736 (1964)]
- New Compounds of the MnCu_2Al and MgZn_2 Types Containing Aluminum and Gallium. (E) V. Ya. Markiv, Yu. V. Voroshilov, P. I. Kripyakevich, and E. E. Cherkashin. *9*, 619 (1965) [9, 737 (1964)]
- The Crystal Structure of Kasolite. (E) V. I. Moiseeva. *9*, 621 (1965) [9, 738 (1964)]
- Crystal Structure of ZnTe Films for Various Deviations from Stoichiometric Composition. (E) K. V. Shalimova, A. F. Andrushko, I. Spymlesku-Karnaru, and B. P. Serebinskii. *9*, 623 (1965) [9, 741 (1964)]
- Electron Diffraction Study of the Semiconducting Compound AgTiTe_2 . (E) R. M. Imamov and Z. G. Pinsker. *9*, 626 (1965) [9, 743 (1964)]
- An X-Ray Structural Investigation of $\text{TiNO}_3 \cdot \text{Ca}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$. (E) O. Ya. Dyachenko and V. M. Ustinov. *9*, 765 (1965) [9, 916 (1964)]
- The Unit Cell and Space Group of Strontioberite. (E) V. V. Kondrat'eva. *9*, 766 (1965) [9, 916 (1964)]
- The Structure of Boron Crystals Grown from the Melt. (E) F. N. Tavazde, I. A. Bairamashvili, G. V. Tsagarelishvili, K. P. Tsomaya, and N. A. Zoldze. *9*, 768 (1965) [9, 918 (1964)]
- 548.736.3**
- An Electron-Diffraction Study of Thin Films in the Bi-O System. (E) A. A. Zav'yaylova, R. M. Imamov, and Z. G. Pinsker. *9*, 724 (1965) [9, 857 (1964)]
- 548.736.4**
- Crystal Structure of Elpidite, $\text{Na}_2\text{Er}(\text{Si}_2\text{O}_7) \cdot 3\text{H}_2\text{O}$. (E) N. N. Neronova and N. V. Belov. *9*, 700 (1965) [9, 828 (1964)]
- Ternary Intermetallic Compounds with a BaAl_4 -Type Superlattice. (E/T) O. S. Zarechnyuk, P. I. Kripyakevich, and E. I. Gladyshevskii. *9*, 706 (1965) [9, 835 (1964)]
- Electron Microdiffraction Study of the Crystal Structure of the Ferroelectric BiFeO_3 . (E) Yu. Ya. Tomashpol'skii, Yu. N. Venetsev, and G. S. Zhdanov. *9*, 715 (1965) [9, 846 (1964)]
- 548.736.5**
- The Crystal Structure of Searlesite, $\text{NaB}_2\text{O}_7(\text{OH})_2$. (E) V. B. Kravchenko. *9*, 143 (1964) [9, 182 (1964)]
- Crystal Structure of Barylite, $\text{BaBe}_2\text{Si}_2\text{O}_{10}$ (Use of Difference F^2 -Syntheses to Solve for Light Atoms in the Presence of Comparatively Heavy Ones). (E) K. K. Abrashev, V. V. Ilyukhin, and N. V. Belov. *9*, 691 (1965) [9, 816 (1964)]
- New Sodium Zirconosilicates. (E) B. N. Litvin, O. K. Mel'nikov, V. V. Ilyukhin, and A. V. Nikitin. *9*, 796 (1965) [9, 943 (1964)]
- 548.737**
- A Crystallographic Study of Gramicidin S Isomericurates. (E) G. N. Tishchenko, K. A. Zykalo, and I. A. Silant'eva. *9*, 26 (1964) [9, 37 (1964)]
- The Crystal Structure of Polytrifluorochloroethylene. (E) E. L. Gal'perin, S. S. Dubov, E. V. Volkova, and M. P. Mlenik. *9*, 81 (1964) [9, 102 (1964)]
- X-Ray Structural Study of Active (d-) and Racemic (d, l-) Antimonyl Tartrates. (E) G. I. Kloso, N. I. Golovastikov, and N. V. Belov. *9*, 321 (1964) [9, 402 (1964)]
- Crystal Structure of p-Dimethyldisoxaminobenzene. (E) Yu. D. Kondrashev. *9*, 323 (1964) [9, 403 (1964)]
- Moiré Patterns Produced by the Superposition of Two Lattice Figures. (T/E) N. K. Ignat'ev. *9*, 582 (1965) [9, 666 (1964)]
- Crystal Structure of L-Phenylalanine Hydrochloride. Refinement and Discussion of Structure. (E) G. V. Gurskaya. *9*, 709 (1965) [9, 839 (1964)]
- 548.74**
- Effects of Thermal Motion on the Potential Distribution for an Atom. (T) V. F. Dvoryankin. *9*, 13 (1964) [9, 20 (1964)]
- Effects of Thermal Motion on the Potential Distribution for the Hydrogen Atom. (T/E) V. F. Dvoryankin and V. N. Kolomilchuk. *9*, 17 (1964) [9, 26 (1964)]
- An Electron-Diffraction Study of the Structure of Potassium Dichromate. (E) L. A. Zhukova and Z. G. Pinsker. *9*, 31 (1964) [9, 44 (1964)]
- An Electron Diffraction Determination of the Positions of Hydrogen Atoms in NH_4Br . (E) V. N. Kolomilchuk and V. F. Dvoryankin. *9*, 35 (1964) [9, 50 (1964)]
- Electron Diffraction Investigation of Superstructure III of PbBi_2Te_3 Alloy. (T) A. G. Talybov. *9*, 41 (1964) [9, 57 (1964)]
- Structure of Thin GaSb Films in the Amorphous State. (E/T) A. G. Mikolaichuk and Ya. I. Dutchak. *9*, 86 (1964) [9, 106 (1964)]

Electron Diffraction Study of the Compound AgBiTe_2 . (E)
Z. G. Pinsker and R. M. Inamov. *ibid.* 277 (1964) [p. 347 (1964)]

Analytic Approximation of Atomic Scattering Factors for Electrons. (T/E) A. N. Khodoshchenko, V. P. Spiridonov, and P. A. Akshina. *ibid.* 452 (1965) [p. 546 (1964)]

Diffraction on Neutrons by Magnetic Superlattices. (T/E)
V. A. Levlik, V. N. Bykov, and V. S. Golovkin. *ibid.* 535 (1965) [p. 629 (1964)]

Interpreting the Electron Diffraction Patterns of Multiply Twinned Crystals. (T/E) M. A. Rumah, K. Lyubitz, and P. P. Konorov. *ibid.* 578 (1965) [p. 709 (1964)]

Determination of the Crystal Structure of $\text{Cu}_2\text{Sb}_2\text{S}_3$. (E)
R. M. Inamov, Z. G. Pinsker, and A. I. Ivchenko. *ibid.* 721 (1965) [p. 853 (1964)]